CONSTRUCTION NEWS

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RAILWAYS.

(*Denotes that this work is advertised in Engineering News.)

ATCHISON, TOPEKA & SANTA FE RY.—The evidence at the railway rate hearing in Chicago brought out the fact that the budget for 1911 and 1912 called for expenditures of $66,500,664 made up as follows: Rights-of-way and station grounds, $2,424,225; grade revision and lessening curves, $5,473,639; bank protection, $625,792; terminal yards, $4,317,937; ballast, $5,914,088; tracks, $2,252,405; second track, $15,627,314; bridges, $3,488,209; track elevation, $3,364,435; station building, $4,685,174; shops, $2,597,014; water and fuel stations, $2,379,819; signal blocks, etc., $2,064,051; machinery and tools, $550,000; new rails, $6,047,492; tie plates, $905,000; telephones and telephone lines, $382,000; docks and wharves, $1,450,000; roadbed work, $1,000,000.

HAMPDEN R. R.—A certificate that public necessity and convenience requires the construction of this line has been issued. The projected line will extend from Bondsville, Mass., on the Boston & Maine, through Belchertown, Ludlow and Chicopee to Springfield. A branch will be built to Holyoke. A connection will also be made with the Central Vermont and the Boston & Albany. The road, only about 30 miles long, is estimated to cost $3,000,000. Ralph D. Gillett, Westfield, Mass., is Pres. The directors are Ralph D. Gillett, Westfield; Archie D. Robinson, Westfield; Arthur W. Eaton, Pittsfield; Joseph A. Skinner, Holyoke; Henry H. Bowman and Fred T. Ley, Springfield, and Henry W. Ely, Westfield.

KANSAS CITY SOUTHERN RY.—A line from Leesville to Houston is projected. The distance, air line, is about 135 miles. A. F. Rust, Kansas City, Mo., is Res. Engr.

KNOXVILLE, SEVIERVILLE & EASTERN RY. CO.—The surveys are under way for the 15-mile extension from Sevierville to Crosby, Tenn. The construction will be mostly team work, for which capital has been secured. W. A. Seymour, Knoxville, Tenn., is Ch. Engr. Noted July 28.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE R. R.—The state railroad commission has authorized the issue of $3,600,000 in bonds to build 180 miles of new road in Minnesota. This road is controlled by the Canadian Pacific. Thomas Green, Minneapolis, Minn., is Ch. Engr.

NEW YORK CENTRAL & HUDSON RIVER R. R.—Plans are being considered for the electrification of the Auburn branch of this road. This branch, 51.5 miles, extends from Syracuse to Geneva, N. Y. Geo. W. Kittridge, Grand Central Station, New York, N. Y., is Ch. Engr.

OKLAHOMA.—Press reports state that Oscar O. Ayers, Guthrie, Okla., is Pres. of the Chickasha, Ardmore & Lawton R. R. and has securtd capital to build the road. The line will run from Ardmore northwesterly to Chickasha, about 100 miles. About 30 miles from Ardmore a branch will be constructed to Lawton, about 80 miles. The new line will cross the Rock Island near Duncan.

PENNSYLVANIA R. R.—According to reports this railroad is seeking an entrance to Ellwood City, Pa. A line is contemplated from Moravia through Hazeldell to that place. A yard is being constructed at Hazeldell. From Ellwood City a line may be built up the valley to Slippery Rock. H. C. Booz, Philadelphia, is Engr. of Branch Lines.

PENNSYLVANIA R. R.—Western New York & Pennsylvania Division. Permission has been granted by the Public Service Commission to eliminate three grade crossings at Hinsdale. W. B. Thompson, Elmira, N. Y., is Div. Engr.

PORTERVILLE NORTHEASTERN RY.—We are officially advised that contracts are now being let for the construction of this 16-mile line. The capital for the construction has been secured. The grading will be mostly light work. C. S. Freeland, Porterville, Cal., is Ch. Engr. Noted Sept. 9.

SEABOARD AIR LINE RY.—Plans are under consideration regarding the building of a line from Rutherfordton to Asheville, about 50 miles. W. L. Seddon, Portsmouth, Va., is Ch. Engr.

SOUTH DAKOTA.—A line is projected from Chamberlain to Cannvalley and then to Huron. This is about 100 miles. The Missouri Valley Engr. Co., Mitchell, S. Dak., is doing the preliminary work. A. E. Parsons, Darlington, Wis., is reported as interested.

SOUTHERN PACIFIC CO.—The yards at Visitation Valley, Calif., will be enlarged. The contemplated improvements call for an expenditure of $12,000,000 over a series of years. A new round house and car shops will be built and about 60 miles of yard tracks will be constructed. The company owns a tract of 200 acres at this point. W. Hood, San Francisco, is Ch. Engr.

TEXAS.—Plans for the construction of the Palacios, San Antonio & Pecos Valley R. R. are about completed, according to press advices. The projected route is from Palacios in a northerly direction to Ismay, Jackson County, where it will cross the St. Louis, Brownsville & Mexico R. R., and it is then to extend to Edna and thence to Ezzell in Lavaca County. The counties to be traversed are Matagorda, Jackson, Lavaca, De Witt, Gonzales, Gaudalupe, Wilson, Fayette, Bastrop, Caldwell and Bexar. Work on the construction of the first 60 miles is to begin at once. The road, which is to extend from Palacios on the gulf coast to San Antonio, will be 160 miles in length. The incorporators are J. P. Pierce, Thomas H. Bonner, S. T. Best, H. W. Dean, W. H. Brooks, W. S. Baldwin, D. L. Stump, Charles Clayton, D. W. Grant and W. S. Bonner, Palacios, Tex.

TOLEDO, OHIO.—Tht City Council has received an estimate that the cost of elimination of the Main St. crossing will be $44,677. This is for the crossing alone. The elevation of the Pennsylvania tracks on either side will involve $150,000 more.

ELECTRIC RAILWAYS.

PITTSFIELD, MASS.—The Berkshire St. Ry. Co. has awarded the contract for constructing a 20 mile extension in the Berkshires to the WORONOCA CONTRACTING CO. L. S. Storrs of Springfield, Mass., is Pres.

MILFORD, MASS.—Engineer of the Milford, Uxbridge St. Ry. Co., are making a survey for the proposed extension of its line from its terminus in Uxbridge to Manchaug, a distance of 14 miles it will also include a part of Whitensville and East Douglas. H. C. Paige, Worcester, Mass., is Gen. Mgr.

HARTFORD CONN.—The Farmington St. Ry. Co. will extend its line on North Stanley St. to Francis St. a distance of 2,000 ft. from the present terminus. C. E. Hubbard, Hartford, Conn., is Gen. Mgr.

WILSON, N. Y.—An electric Ry. is to be built from the New York Central R. R. station to Island Lake Park and Sunset Beach on Lake Ontario, a distance of two miles. S. M. Conant, Pres. of the Conant-Bryant Company, is urging the project.

BROOKLYN, N. Y.—The Brooklyn Rapid Transit Co. has been granted permission by the Public Service Commission and will apply for a permit from the borough authorities to begin work on a new extension of its line through the sections of East New York and Brownsville, this will be an extension of the Church Av. line which ends at Rockaway Ave. J. E. Babcock is Ch. Engr.

LATROBE, PA.—Two mortgages amounting to $31,000,000 have been filed in the Recorder's office by the West Penn Ry. Co. A portion of the money desired from this source will be used in the constructing the extension of its line from Latrobe to Greensburg. W. E. Moore, Connellsville, Pa., is Gen. Mgr.

PITTSBURG, PA.—Press advices are to the effect that H. M. Rodgers and C. B. Reeves associated with Eastern capitalists will soon begin the construction of a rapid transit electric line from Pittsburg to Wheeling by the way of Wellsburg.

McKEESPORT, PA.—The McKeesport & Westmoreland Ry. Co. have decided to make extensions of its lines in McKeesport and Mifflin. The extensions include about 10 miles. Manning Stires, McKeesport, Pa., is Pres.

PHILADELPHIA, PA.—The Philadelphia & Western Ry. Co. will soon build an extension, branching off from the main division at a point between Villa Nova and Radnor, extending into West Conshohocken. John Davey, Upper Darby, Pa., is Ch. Engr.

CARLISLE, PA.—The contract for the three mile extension of the main line and also for the three mile extension of the Tye Fork spur has been awarded the GIBSON-CARR CONSTRUCTION CO. of Middlesboro, Ky. M. P. Moore of Carlisle is Ch. Engr.

RICHMOND, VA.—The Virginia Ry. and Power Co. will soon extend its tracks into the Lee ward section between Broad and Main Sts. C. B. Buchanan is General Supt., Richmond, Va.

MACON, GA.—The Macon Ry. & Light Co. will place contracts for building two miles of new track. J. T. Nyhan, Macon, is Gen. Mgr.

STEUBENVILLE, O.—The Tri-State Traction Co. will rebuild within the next four weeks one mile of track in Wellsburg, W. Va. J. W. Dorman, Washington, Pa., is Pres.

DAYTON, O.—The Dayton, Springfield & Xenia Southern Ry. Co., has asked for the right to construct a loop in the central section of the city. C. J. Ferneding is Gen. Mgr., Dayton, Ohio.

COLUMBUS, OHIO.—Bids will be received by the director of service of Columbus, until Oct. 12, for the construction of a street railway between Starling St. and the First alley west of Lucas St. in accordance with the plans and specifications on file in the office of Henry Maetzel, City Engr.

JERSEYVILLE, ILL.—Contract has been awarded by the Alton, Jacksonville & Peoria Ry., to J. J. SCOTT & SON, St. Louis, Mo., for constructing and bridge work on a 17-mile extension from Jerseyville to Godfrey. W. R. Heagler of Alton is Ch. Engr.

ST. PAUL, MINN.—Articles of incorporation have been filed with the Secretary of State by the St. Paul Ry. Promotion Co., with a capital of $100,000 to build an electric interurban Ry. It is proposed to connect St. Paul with the territory tributary to the Minnesota River Valley. W. J. Hoy, Phil W. Herzog, L. P. Ordway, and A. H. Stem, all of St. Paul, are interested.

GRAND FORKS, N. DAK.—The Grand Forks Transit Co. will soon build a one mile extension of its line to East Grand Forks. L. Stinson, Grand Forks, is Pres.

DODSON, MO.—A survey is being made for an electric freight and passenger line to connect with the metropolitan line at Dodson and to run to Belton and Harrisville, $130,000 and a right of way of 100 ft. in width has been obtained. H. D. Patee, Dodson, Mo., is interested.

MEXICO, MO.—R. E. Race of the St. Charles & Northwestern Traction Co. stated that work on the line from St. Charles to Troy and from there to Laddonia, would begin this fall. This line will eventually connect with the Mexico, Saute Fe & Perry Traction Co, which is now under construction.

JONESBORO, ARK.—Surveys are being made of three different routes for the interurban line between Jonesboro and Nettleton. Material will be ordered at once and construction work started.

AUSTIN, TEX.—N. A. Dawson, of San Antonio, and associates, who were recently granted a franchise by this city for the construction of an electric railway system in South Austin and through portions of Austin, have made a voluntary bond to the city in the sum of $20,000 that they will complete not less than 1¼ miles of track within a year from the time the bond was accepted.

DALLAS, TEX.—A survey has been made for the construction of an Electric Ry. between Houston and Dallas connecting with the North Texas Traction Co. This line will parallel the Houston & Texas Central R. R. and with the Galveston Houston line will form a complete electric line from the northern part of Texas to the gulf. The Stone & Weber Engineering Corporation, Boston, Mass., are the Engrs.

TACOMA, WASH.—See item under Light and Power Plants.

PORTLAND, ORE.—Press advices are to the effect that actual work has been started on the line of the Mount Hood Ry. & Power Co. Twenty-one miles of road will be built immediately, and construction of the power plant begun. This takes the road to the Sandy and Bull Run power sites, giving 16 miles of the main line. O. B. Smith, of Toronto, will take charge of the company's work, and will let contracts soon to complete grading on the section of the line to the power plant.

WOODLAND, CAL.—Engineers in the employ of the Vallejo & Northern R. R. Co. are making a survey to determine the feasibility of a direct line between Woodland and Sacramento.

LOS ANGELES, CAL.—See item under Miscellaneous Contracts—"Scenic Railway."

LOS ANGELES, CAL.—The Pacific Electric Ry. Co. has awarded H. C. DUNN the contract for laying the rails for its extension between Claremont and Upland.

SANTA ANA, CAL.—Engineers of the Pacific Electric Co. are making preliminary surveys for an electric line into Anaheim. It is understood that the line will have its terminus at Anaheim, but that probably during the next year it will be extended to Placenta and Riverside.

BAKERSFIELD, CAL..The Bakersfield & Ventura R. R. Co. are preparing to double track the line from the Santa Fe depot to 28th St.; also to double track the Chester Ave. line from 19th to Eighth Sts. J. E. Baker is Ch. Engr.

LIGHT AND POWER PLANTS.

(*Denotes that this work is advertised in Engineering News.)

BRATTLEBORO, VT.—See item under Manufacturing Plants.

BOSTON, MASS. — Preliminary plans will soon be completed for the electrification of the Hoosac Tunnel of the Boston & Maine R. R. Co. J. P. Snow is Ch. Engr., Boston.

UXBRIDGE, MASS.—The old dam on the Mumford River, which furnishes the water power operating the plants of the Uxbridge Worsted Co., and the Davis & Brown Co., will be replaced with a modern stone dam. BLANCHARD BROS. GRANITE CO. have the contract for the new structure. Estimated cost, $5,000.

PERRYSBURG, N. Y.—Bids will be received by the Department of Public Works, Buffalo, N. Y., until Oct. 8, for the construction of the J. N. Adam Memorial Hospital for Incipient Tuberculosis at Perrysburg, N. Y., including power-house. Plans and specifications can be seen and printed forms of proposals secured on application at the Bureau of Buildings, the office of the architect, room 298, Ellicott Sq., Buffalo, and at the office of the Trustees of the hospitals, 411 White Bldg., Buffalo. Francis G. Ward is Comr. Pub. Wks.

DOLGEVILLE, N. Y.—The contract for lighting the streets of the village has been awarded to the UTICA GAS & ELECTRIC CO., C. A. Greenridge, Ch. Engr., of Utica, for a period of five years, beginning Jan. 1, 1911. The company is to supply incandescent electric lamps at $22.50 each per year and arc lamps at $75 per lamp.

BUFFALO, N. Y.—The Cataract Power & Conduit Co. has applied to the Public Service Commission, Second District, for permission to issue $178,000 in bonds, to be used as follows: For overhead construction, $7,223; for cables, etc., $48,548; for conduits, $6,277; for transformers, $3,000; for meters, $5,500; for station equipment, $50,000. H. B. Alverson is Supt.

BUFFALO, N. Y.—Bids are asked by the State Commission in Lunacy until 3 p. m., Oct. 11, for the construction of underground feeder cables at the Buffalo State Hospital here; and also for header mains at the same institution. T. E. McGarr is Secy. Comn.; F. B. Ware is State Arch.

NEW YORK, N. Y.—Bids will be received by C. B. J. Snyder, Supt. School Bldgs. Department of Education, until 4 p. m., Oct. 17, for Item 3, installing heating and ventilating apparatus at 991-993 Southern Boulevard, annex to Public School 20, Boro. of The Bronx.

NEW YORK, N. Y.—Bids were opened by Cyrus C. Miller, Pres. Boro. The Bronx, on Sept. 27, for a complete lighting system for municipal building, Third and Tremont Aves., as follows: New York Construction Co, $5,400; Wells & Newton Co., Ave. B. and 17th St., New York, $3,331; Joseph P. Dielburg, $8,000; Oberg-Blumberg & Bluyer, $5,100; Lord Electric Co., $6,642.

*NEW YORK, N. Y.—Bids are asked until 3 p. m., Nov. 3, by James Knox Taylor, Superv. Arch., Washington, D. C., for installing a heating and ventilating system in the new U. S. post-office building; and for an electric elevator equipment at the U. S. post-office, New York.

AVON, N. Y.—The Avon Electric Co. has petitioned the Public Service Commission, Second District, for permission to extend its transmission lines from Lakeville to Geneseo, or from Long Point on Lake Conesus to Geneseo. Estimated cost $1,350 per mile. A. B. Hooker is Ch. Engr. and Elecn.

ALEXANDRIA BAY, N. Y.—The St. Lawrence International Electric R. R. & Land Co. will purchase during the next two months one 400-HP. Corliss engine and one 200-KW. General Electric generator to increase the output of the plant for electricity for lighting purposes. R. M. Martin, of Alexandria Bay, is Supt.

CAMDEN, N. J.—The Searchlight Gas Co., Pittsburg, Pa., will erect a plant here on Broadway at once.

MADISON, N. J.—The Borough Council is considering improvements to the municipal electric light plant, including the installation of three 2-phase, 60-cycle alternators,

250-KW., 120-KW. and 70-KW., respectively, and new switchboard to control same. H. S. Torrey is Ch. Engr.

NORTH YORK (York post-office), PA.—The Council has passed an ordinance granting the North York Electric Light Co. permission to erect and operate electric light lines in the borough.

EXPORT, PA.—Bids will be received by F. E. Now, Purchasing Agt., until noon, Oct. 10, for the erection of a brick boiler and power house, 97 × 83 ft., at Delmont mine, of the New York & Cleveland Gas Coal Co., near Export, Westmoreland County. Plans, specifications and blank proposals can be had at office of Chief Engineer, Pittsburgh Coal Co., Oliver Bldg., Pittsburg.

ORANGEVILLE, MD.—See item under Manufacturing Plants.

WILLIAMSBURG, W. VA.—William and Mary College will have plans prepared for a light and water system. Estimated cost, $25,000.

WELCH, W. VA.—The contract for the construction of the power house at the Miners' Hospital has been awarded to the J. D. SHOTT PAVING CO., of Bluefield, W. Va.

SUMMERSVILLE, W. VA.—W. H. Campbell has applied to the Nicholas County Court for a 20-year franchise to construct a system to furnish the city with electric light and power.

JARROLDS VALLEY, W. VA.—The Seng Creek Coal Co., it is reported, is in the market for complete equipment of electrically operated machinery for its mines. Bids will be opened this month.

WHEELING, W. VA.—The Board of Control will soon ask for bids for a new lighting system.

MOUNDSVILLE, W. VA.—The Fostoria Glass Co. has awarded contract to WALTER O. AMSLER, Wabash Bldg., Pittsburg, for five gas producers to be installed in their plant. The producers are to be 11 ft. in diameter with a capacity of 12 tons of coal in 24 hours.

CLARKSBURG, W. VA.—The Hayman Greenhouse Co. has commissioned George G. Seamans, Engr., 436 Wabash Bldg., Pittsburg, Pa., to furnish plans for a heating system for the new hot houses now being erected. The plant will include a complete Morehead return steam trap installation.

CHARLESTON, W. VA.—A 30-year franchise has been granted to Fred Paul Grosscup and associates to pipe natural gas through the streets of the city for commercial purposes. The Cooper's Creek fields will be developed to furnish gas for the purpose. William Seymoure Edwards has also applied for a similar franchise.

BLUEFIELD, W. VA.—The Board of Affairs has granted the Bluefield Gas & Fuel Co. a franchise for the erection of a gas plant in East End. The contract for the grading, excavating and all concrete foundation work has been awarded by the company to W. E. McARTOR. The Baltimore Retort & Firebrick Co. has prepared the plans and specifications for the plant and will probably be awarded the contract for its construction.

ANSONVILLE, N. C.—See item under Manufacturing Plants.

SPRING HOPE, N. C.—See item under Manufacturing Plants.

OSYKA, MISS.—Bids will be asked about Nov. 1 by the city for the construction of an electric light plant and water-works system. Bonds for $20,000 have been voted. Xavier A. Kramer, of Magnolia, Miss., is Consult. Engr.

THIBODAUX, LA.—The Board of Aldermen on Sept. 23 awarded contracts for the municipal electric light plant as follows: To GEORGE W. KETTRIHAM, for building, $4,950; DRESEL ENGINE CO., St. Louis, engines, $22,000; FORT WAYNE ELECTRICAL WORKS, Fort Wayne, Ind., pumps, $17,125, and wiring, $1,102; A. C. JONES, poles, $3,549; LAWRENCE PUMP & ENGINE WORKS, other machinery, $2,061.

HUDSON, OHIO.—The contract has been awarded to PHILIP SCHMIDT, of Youngstown, Ohio, for erecting the power-house for the water-works. Estimated cost, $25,000.

JACKSON, OHIO.—Bids will be received by the Trustees of Public Affairs until Oct. 20, extension of date from Sept. 29, for furnishing material and enlarging and improving the municipal electric light plants. W. A. Dallas is Clk.

COLUMBUS, OHIO.—The contract for constructing a power-house at the State University has been awarded to CHARLES KIRCHER of Athens, Ohio.

LANCASTER, OHIO.—Bids will be received by the Board of Trustees, Boys' Industrial School, F. C. Gerlach, Secy., Lancaster, until 10 a. m., Oct. 27, for the labor and materials for additional boilers or boiler for the light, heat and power plant at the school.

MUNCIE, IND.—The American Gas & Electric Co. is perfecting plans to supply Muncie, Marion, Hartford City and Dunkirk, Ind., with light and power from the central power-house here. A concrete smokestack 220 ft. high will be constructed. W. O. Haymond is Ch. Elecn., Muncie.

ONTARIO, IND.—The Riverside Electric Co. is planning to build and equip an electric light and power plant. W. H. Cain is Pres.

CONNERSVILLE, IND.—See item under Water Supply-Irrigation.

DETROIT, MICH.—See item under Manufacturing Plants.

GRAND RAPIDS, MICH.—See item under Manufacturing Plants.

BELLEVILLE, ILL.—The contract for lighting with electricity for a period of ten years the streets, avenues, public grounds and municipal buildings, has been awarded to the ST. CLAIR COUNTY GAS & ELECTRIC CO., of Belleville, at $24,570 per year for 351 lights, municipal buildings lighted free.

CHICAGO, ILL.—Contract for the powerhouse and substation requiring 3,100 tons of steel, of the Commonwealth Edison Co., has been awarded to GEORGE W. JACKSON, Inc., 175 West Jackson Boulevard, Chicago.

RACINE, WIS.—The Racine Mfg. Co. will soon be in the market for equipment, including motors, for the addition to be made to its plant.

MILWAUKEE, WIS.—See item under Water Supply—Irrigation.

GREEN BAY, WIS.—See item under Manufacturing Plants.

NEENAH, WIS.—See item under Manufacturing Plants.

ALEXANDRIA, MINN.—The City Council has awarded contract to A. L. IDE & SONS, 204 Dearborn St., Chicago, Ill., for the installation of an 85-H.P. engine and 50-K.W. generator, direct-connected, in the municipal electric plant, at $4,300.

DULUTH, MINN.—The National Power & Development Co., Torrey Bldg., Duluth, are preparing for the development of a 1,000-HP. hydroelectric power project on Poplar River, about 90 miles from here. The work will include the construction of a 35-ft. reinforced concrete dam, 1,200 ft. of conduit and a 30-ton paper mill. The power plant will supply electricity to operate the paper mill and also to operate a railway. Estimated cost, $170,000. D. A. Reed is Consult. Engr.

MINNEAPOLIS, MINN.—See item under Manufacturing Plants.

ST. PAUL, MINN.—Plans for a power plant at Eighth and Sibley Sts., have been prepared for the Business League.

The City Hall and Court-house Commission has awarded contract to the ST. PAUL GAS LIGHT CO., Fred R. Cutcheon, Supt., for heating and lighting the city hall for one year at $13,000, with option of extension on same terms for one or two years.

DEADWOOD, S. DAK. — The Consolidated Power & Light Co. has awarded contract for the construction of an addition to its power house to MULLEN & ROURKE, of Deadwood. Estimated cost, $40,000.

ONIDA, S. DAK.—The Onida Electric Light & Power Co. has been granted a 20-year franchise to construct and operate an electric light plant here.

ST. LOUIS, MO.—Bids will be received by Maxime Reber, Pres. Bd. Pub. Wks., until Oct. 7, for furnishing and erecting at the high-service station No. 2 one 30-ton electric traveling crane, complete with all appurtenances, as per letting No. 9991, and for furnishing and erecting complete same station a steel crane runway and columns with all necessary connections, as per letting No. 10,147. Plans, specifications and forms of contract may be obtained upon application at the office of the Water Commissioner, 312 New City Hall.

WACO, TEX.—The Civic Improvement Committee of the Business Men's Club is ready to receive bids for the installation of an ornamental lighting system for the business section of the city. C. W. Coons is Secy.

VERNON, TEX.—The Vernon Tel., Light & Power Co. is contemplating making improvements to its system which will double the output of the plant. H. D. Hockersmith is Mgr.

SAN MARCOS, TEX.—G. W. Alt and associates have submitted to the City Council a proposition for the installation of a gas plant for this city. The proposition provides for a maximum rate of $1.60 per 1,000 cu. ft., the product to be furnished anywhere in the city for lighting, heating, power, cooking or any other use to which gas may be put.

DURANT, OKLA.—The City Council has let a contract to the WESTINGHOUSE ELECTRIC & MFG. CO. for the installation of a $20,000 electric light plant; for an $18,000 filter contract has been awarded to the ROBERTS FILTER CO., of Philadelphia.

PRYOR CREEK, OKLA.—Bids will be received by W. L. Jones until 1 p. m., Oct. 12, for an electric light plant. Plans and specifications may be obtained from E. T. Archer & Co., Engrs., 426 Beals Bldg., Kansas City, Mo.

DENVER, COLO.—The Central Colorado Power Co., G. H. Walbridge, Gen. Mgr., is contemplating the construction of another power plant at Grizzley Creek, six miles east of Glenwood Springs, in the canon of the Grand River. The plans include driving a 2-mile tunnel below the present bore and increasing the output of the company from 26,000 to 50,000 HP.

TACOMA, WASH.—The Puget Sound, Chelan & Spokane Ry. Co., lately incorporated with a capital stock of $25,000,000, has engaged the W. K. Palmer Co., Engrs., 717-720 Dwight Bldg., Kansas City, Mo., to take charge of all its engineering work and supervise construction. The company proposes to develop about thirty hydroelectric properties in Washington, aggregating more than 300,000 HP., and the construction of about 1,200 miles of electric railway.

SEATTLE, WASH.—On Nov. 8 a proposition to issue $1,400,000 in bonds, the proceeds to be used for extending and enlarging the municipal electric light plant, will be submitted to a vote of the citizens. R. H. Thomson is City Engr.

SEATTLE, WASH.—See item under Streets and Roads.

SPOKANE, WASH.—H. H. Shallenberger, Secy. International Lead & Iron Co., has announced that a town is being laid out at Salmon Rapids. Preliminary surveys have been made for the installation of a 65,000-HP. electric power plant on the Salmon River.

ABERDEEN, WASH.—Contract has been awarded to the WESTERN PLUMBING, HEATING & CONSTRUCTION CO., of this city, for constructing the large heating plant which is to be installed in the new Dabney-Mack Building.

WALLA WALLA, WASH.—Bids will be received until Oct. 15 by T. D. S. Hart, City Clk., for lighting the streets of the city by electricity with 186 or more arc lights, beginning Nov. 1, 1910. Bids must state the price per light per month, including maintenance for same, and are to be for periods of three and five years.

NYSSA, ORE.—The City Council has granted to the Idaho-Oregon Light & Power Co. a 25-year franchise for an electric light system.

EUGENE, ORE.—The H. M. Byllesly Co., 318 La Salle St., Chicago, is arranging to construct here a 150,000-cu. ft. gas holder and a new water gas plant with a capacity of 250,000 cu. ft. per day.

SAN BERNARDINO, CAL.—The Board of Supervisors will receive bids until 2 p. m., Oct. 10, for a certain franchise applied for by Pacific Light & Power Co., for right to erect and construct and for a period of 40 years to maintain and operate poles and other superstructures upon and from which to suspend, affix and hang wires, cables or other appliances for transmission of electricity and to lay, maintain and operate wires, cable and other appliances for transmitting and conducting electricity upon highways of the county. Charles Post is County Clk.

A municipal light plant to serve both San Bernardino and Redlands is projected by the City Councils of both cities.

GEORGETOWN, CAL.—Preliminary work is now being done by the Rubicorn Water & Power Co. for the construction of a large hydroelectric power plant on the American River, above here.

The Loon Lake Water & Power Co., successor to the California Water & Mining Co., is making preparations for the construction of large storage reservoirs and erection of hydroelectric power plants on the Georgetown Divide. A large part of the work is located about 25 miles from here. H. D. Jerrett is Local Mgr.

UPLAND, CAL.—The City Council has passed an ordinance granting a franchise to the Pacific Light & Power Co., to erect transmission lines on Orange Ave., and to connect with the Tenth St. line. The company will probable erect a power-house on Orange Ave.

ONTARIO, CAL.—The Ontario-Uplands Gas Co. will erect a gas booster here.

MARTINEZ, CAL.—The Town Trustees are considering the installation with the new water plant, of an electric power and gasoline equipment, to cost approximately $31,000.

ALHAMBRA, CAL.—The contract for lighting the city has been awarded by the City Trustees to the PACIFIC ELECTRIC LIGHT & POWER CO.

BAKERSFIELD, CAL.—The Kern River Oil Fields, Ltd., has awarded contract to the SAN JOAQUIN LIGHT & POWER CO. to furnish 2,500-HP. to the oil fields to run the machinery of the company. It is stated that 200 motors are to be installed by the company for the purpose of operating pumps, drills and other machinery.

BENSON, ARIZ.—The installation of an electric light plant here is under consideration, equipment to include a 60-KW. generator and two engines. J. E. Collins, of Tucson, Ariz., is interested.

MONTREAL, QUE.—The Board of Control has awarded contract to the MONTREAL LIGHT, HEAT & POWER CO., R. M. Wilson, Ch. Elec. Engr., for lighting the streets for a period of ten years. The company offered to supply 1,650 lamps or over at $72.70 each, on Schedule "A," and $63.15 on Schedule "B."

PORT CREDIT, ONT.—The Hydro-Electric Power Commission, of Toronto, on Sept. 20, awarded contracts for the substation to be erected at Port Credit to supply Brampton, Milton and other municipalities, as follows: For erecting building, to STEWART BROS., of Port Credit; to the ALLIS-CHALMERS-BULLOCK CO., of Montreal, Que., for the transformers; for the switching equipment, to the CANADIAN-WESTINGHOUSE CO., of Hamilton, Ont.

LONDON, ONT.—Contracts have been awarded by the Water Commissioners for electrical equipment for the Springbank pumping station as follows: For two 3,000,000-gallon turbine pumps to the JOHN McDOUGALL IRON WORKS CO.; to the CANADIAN WESTINGHOUSE CO. for two 260-HP. self-starting, synchronous motors with direct-connected exciters; for two 350 KVA. 3-phase, 13,200 to 2300-volts, self-cooled transformers, to the ALLIS-CHALMERS CO., for switchboard equipment to SIEMENS BROS. H. J. Glaubitz, Continental Life Bldg., Toronto, Ont., Consult. Engr.

COMOX, B. C.—Surveys are being made in connection with the project of the Canadian Collieries (Dunsmuir), Ltd., for the development of a large hydroelectric plant on the Puntledge River in the center of the Comox coal field, British Columbia, where it is estimated that 50,000 HP. can be developed. Electricity generated at the plant will be utilized in operating a system of compressed air haulage in the mines and machinery in various plants and also to operate a 14-mile railway connecting the different collieries with the ore bunkers at Union Bay.

SANTA ROSALIA (Chihuahua), MEX.—The Mexican Northern Power Co., the Canadian concern which is constructing a large hydroelectric power plant on the Conchos River, 19 miles from here, has enlarged its original plans. It is announced that the plans which are now being carried out call for the expenditure of approximately $20,000,000 gold. One-half of this sum will be used in the construction of the dam across the Conchos River and the in[illegible]ation of the electric power system; th[illegible] remaining $10,000,000 will be expended in [illegible] construction of one of a large system o[illegible] irrigation. The initial capacity of the [illegible] electric plant will be 40,000 HP. This [illegible] be later increased to 90,000 HP. The [illegible] transmission lines will radiate in [illegible] directions from the central plant. [illegible] survey for the proposed system of canals [illegible] ditches has been made and construct[illegible] will be started as soon as the work on [illegible] dam is further advanced.

CAMPINAS, MEX.—See item [illegible] Manufacturing Plants.

WINNIPEG, Man.—Bids will [illegible] received by the Board of Control, M. Pete[illegible] Secy., until Oct. 20 for furnishing one [illegible] P., 60-cycle, induction motor and silent [illegible] drive therefor.

BRIDGES.

*(*Denotes that this work is adv[illegible]sed in Engineering News.)*

NEW YORK, N. Y.—Contract [illegible] been awarded SNARE & TRIEST, N. [illegible] City, for the construction of a bridge a[illegible]ss the East Chester Creek at $32,000.

NEW YORK CITY.—Bids will be [illegible]ceived by Kingsley S. Martin, Commiss[illegible]er of Bridges, 13 to 21 Park Row until [illegible] p. m., Oct. 13 for furnishing and delivering [illegible]nedina or potsdam sandstone paving blocks [illegible]or the Williamsburg Bridge; also for repai[illegible]ng the fender of the Willis Ave. bridge o[illegible]er the Harlem River.

DUNKIRK, N. Y.—Contract for t[illegible] construction of the Twenty Mile Creek [illegible]aduct has been awarded the AMERICAN [illegible]RIDGE CO. of N. Y. City for the supers[illegible]ucture and to REYNOLDS & COUGHLIN, [illegible] Buffalo, N. Y., for the foundations. The viaduct is a single track steel trestle [illegible] ft. long with a 140 ft. span across th[illegible] creek. C. A. Alderman, Buffalo, N. Y., is Ch. Engr.

CATSKILL, N. Y.—Bids will be r[illegible]ceived until Oct. 7 by the Town Bd. for constructing a concrete highway bridge over Vossenkill. Geo. H. Warner, 438 Main St., Catskill, is Engr.

OCEAN CITY, N. J.—The Cape May County Board of Freeholders have instructed its Engr. to prepare plans and specifications for a bridge between Beesleys Point and Somers Point connecting the counties of Cape May and Atlantic. Estimated cost is $300,000.

WILKES-BARRE, PA.—Bids will be received until noon Oct. 19, by James M. Norris, Controller of Luzerne County, for constructing the following: Seven river piers including sheet piling, pile foundation and reinforcement; six steel river spans complete, including granolithic sidewalks, paved concrete roadway and hand rail; reinforced concrete viaduct approaches, complete with foundations, granolithic sidewalks, paved concrete roadway and hand rail; al[illegible], above viaduct with reinforced concrete columns and paved floor on steel beams and stringers; rolled earth fill complete ready for use, including macadam paving and hand rail. Electric wiring complete for the entire bridge, including junction and switch boxes, wiring, transformers, lamps and ground connections. Plans and specifications on file in the office of the Comn. Alfred Hand is City Engr.

BALA, PA.—The contract for the construction of the Union Ave. concrete and steel bridge has been awarded P. J. LAWLER, Bala, Pa., at $6,395. The next lowest bidder was Reilly, Weber & Mahony, Philadelphia, Pa., $6,985. W. A. McIntyre is Supt. of Highways.

YORK, PA.—Bids will be received by the Board of County Commissioners until 10 a. m. Oct. 20, for the erection of the following bridges: A concrete bridge across Muddy creek near Brogueville; a stone or concrete bridge over Fishing creek near Yocumtown, also for the alteration of a bridge in Dover borough. Plans and specifications are on file in the office of the County Comnrs. Wm. H. Strine is Clerk Comn.

SMITHPORT, PA.—Bids will be received, for the construction of a steel bridge over Willow Creek at the Warren county road through Corydon Township, until Oct. 7 by the County Comrs. Plans and specifications are on file in the office of the Commission. John A. Peterson is Pres. of the Comn.

EAST BRADY, PA.—Contract for the construction of the bridge across Lick Run has been awarded the AMERICAN BRIDGE CO., N. Y. City, at $5,330, for the superstructure and to PETER MEYER the substructure at $5.45 per cu. yd. of concrete.

EASTON, PA.—A report on the proposed bridge across the Lehigh River at South Third St. has been submitted to the County Comrs. A steel structure is being recommended.

NORTHAMPTON, PA.—Announcement is made by Secretary W. J. Hell[illegible] of the Minsi Trail Bridge Co., that the awarding of a contract for the erection of [illegible] $150,000 steel and concrete bridge across the Lehigh River from Northampton Heights to East Bethlehem awaits only the signing of several agreements as to land rights.

WESTERNPORT, MD.—See item under Water Supply-Irrigation.

LURAY, VA.—The Page County Supervisors are considering the construction of a steel bridge across the Shenandoah at Alma.

WHEELING, W. VA.—The board of county commissioners has ordered County Road Engineer A. S. Bell to prepare plans and specifications for a concrete and steel bridge to be erected on the Bethany Pike over Leatherwood run. Fred H. Frank is clerk of the board.

BIRMINGHAM, ALA.—The City Council adopted the plans submitted by Maury Nicholson, City Engr. for the building of a viaduct on First Ave. over the grade crossing at Sloss-Sheffield city furnaces. Work on the viaduct will be started at once.

BAY ST. LOUIS, MISS.—Plans have been completed by the Louisville & Nashville R. R. for the reconstruction of the two-mile bridge across St. Louis Bay. W. H. Courtney, Louisville, Ky., is Ch. Engr.

STEUBENVILLE, O.—City Engineer Leech has submitted two sets of plans to the board of control for a bridge to span Lincoln creek.

ASHTABULA, OHIO.—The contract for construction of a bascule bridge for the Lake Shore & Michigan Southern Ry. Co. has been awarded the PENNSYLVANIA STEEL CO., Steelton, Pa., at $150,000.

CLEVELAND, OHIO.—Bids will be received until 11 a. m., Oct. 26 by the County Comrs. for the construction of a concrete bridge. Plans and specifications are on file in the office of Frank R. Lander, County Surveyor. John F. Goldenbogen is Clerk to the Comn.

CLEVELAND, OHIO.—The contract for the paving of the Dennison-Howard bridge connecting the cities of Brooklyn and Newburg has been awarded ADAMS BROS., Zanesville, Ohio, at $50,000.

UPPER SANDUSKY, OHIO.—Bids will be received by Peter Frank Jr. County Auditor for two sand stone abutments for the Mexico bridge until noon, Oct. 21. Plans and specifications are on file in the office of the County Audr.

SHELBYVILLE, IND.—The contract for the construction of the superstructure of the Millbrook bridge across Heney creek has been awarded the NATIONAL BRIDGE CO. Indianapolis. S. P. Harris is County Engr.

SHELBYVILLE, IND.—The Comrs. of Shelby County will receive bids until 10 a. m., Oct. 22, for the construction of a steel-truss bridge with concrete floor. G. B. Huntington is County Audr.

NOBLESVILLE, IND.—Comrs. of Hamilton County will receive bids until 2 p. m., Oct. 14, for the construction of a bridge over Fall Creek on the County line. George Griffin is County Audr.

GREEN CASTLE, IND.—The county comrs. have let a contract for the erection of a steel bridge in Putnam county to A. M. LISBY, of Coatsville, at $5,495.

SHELBYVILLE, IND.—The county comrs. have let a contract to MONROE GOODRICH to build the approaches to the Fox Ford bridges in Marion township.

WABASH, IND.—The contract for the construction of two bridges in Wabash county has been let to the TODD CONSTRUCTION Co.

MENOMINEE, MICH.—The City Council has appropriated $8,700 for building a bridge over the Menominee river to connect this city and Marinette, Wis. The city of Marinette will make a similar appropriation. Albert Haas is City Engr.

DETROIT, MICH.—Bids will be received until 10 a. m., Oct. 8, by J. J. Haarer, Comr. of Public Works for constructing a steel bridge at 14th Ave. over the Michigan Central R. R. tracks. Plans and specifications on file in the office of G. H. Webb, Detroit, Mich., Ch. Engr. of the Michigan Central R. R.

OTTAWA, ILL.—The contract for the approaches to the Illinois river bridge was awarded by the City Council to the ILLINOIS CEMENT CONSTRUCTION CO. of Springfield., Ill., at $13,107. The contract consists of building concrete retaining walls having a total length of 1,953 ft. and the filling to be made will amount to 6,000 cu. yds.

CHICAGO, ILL.—The Chicago and Western Indiana R. R. has awarded a contract for 2,300 tons of bridge material to the AMERICAN BRIDGE CO. E. H. Lee is Ch. Engr.

MACKINAW, ILL.—Contract for the construction of a bridge over Hoffman Slough has been awarded WALTER PORTER by the bridge committee of the Board of Supervisors.

MISSOULA, MONT.—Bids were reeeived Sept. 13 for the construction of a concrete arch. 70-ft. long, 36-ft. wide, across the Rattlesnake River as follows: Olson & Johnson, Missoula, Mont., $6,775; Garden City Construction Co., Missoula, $10,125; J. F. Harrington, Butte, Mont., $11,954; Security Bridge Co. Minneapolis, Minn., $12 900; Hennepin Bridge Co., Minneapolis, Minn., $15,980; Chas. G. Sheely, Pocatello, Idaho, $18,760. The contract was awarded to OLSON & JOHNSON. The Hurley Mason Co., Portland, Ore., are Engrs.

STILLWATER, OKLA.—Contract for the construction of a bridge across the Cimarron River, at the Old Bland Crossing, has been awarded by the County Comrs. to the WEATHERFORD MACHINE AND FOUNDRY CO., at $17,956. It will be 642 ft. in length.

WALSENBURG, COLO.—Bids will be received until Oct. 10, by the County Comrs. for the construction of a steel bridge over the Huerfano River at Badito. J. D. Montez is clerk to the Comn.

SEATTLE, WASH.—Contracts for furnishing the steel for the bridge over the Columbia River at Celilo and two bridges across the Deschutes at Horseshoe Bend have been awarded the PENNSYLVANIA STEEL CO. Forty five hundred tons of steel will be used in the first structure. Estimated cost $1,000,000.

MODESTO, CAL.—Bids are being asked for the construction of a steel bridge consisting of two 150 ft. spans to cross the Bitter Root River at Stevensville. A. L. Finney is County Engr.

LOS ANGELES, CAL.—Bids will be received until Oct. 10, by the County Comrs. for the construction of two 65 ft. concrete arches across the Arroyo Seco at Highland Park, connecting Los Angeles and South Pasadena. Estimated cost, $130,000. I. G. Noble, 121 North Spring St., Los Angeles is County Surveyor.

LOS ANGELES, CAL.—The Pacific Electric Railway Company has signed a contract with the city to build a concrete wall each side of its tracks from Fargo to Baxter Sts., at Edendale and a bridge over tracks at Baxter St. Geo. E. Pillsbury is Ch. Engr.

REDDING, CAL.—The Supervisors have ordered the surveyor to prepare plans and specifications for a bridge across Squaw creek on road between Kennett and Coram also one across Salt Creek, between Redding and Middle Creek.

ESCONDIDO, CAL.—Contract for the construction of an 80 ft. concrete bridge over the Escondido River has been awarded to F. A. STEFFGEN, of San Diego.

MADERA, CAL.—Bids will be received until 10 a. m., Oct. 22, by the Board of Supervisors, for the construction of a trestle bridge, 77 ft. long, 16 ft. wide in the clear, across the Chowchilla river. Plans on file in office of the board. W. R. Curtin, is clerk.

IDAHO FALLS, IDAHO.—The contract for the construction of nine steel and concrete bridges in the county has been awarded PARHAM & HARRIS, St. Anthony, Ida. at $12,000.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

LOWELL, MASS.—The following bids were received on Aug. 31 by the Building Committee for constructing the proposed Y. M. C. A. building: Central Constructiop Co., of Worcester, $155,626; C. P. Conant, of Lowell, $159,044; CONNORS BROS., of Lowell, $129,950 (awarded contract); William Drapeau, of Lowell, $143,109; P. O'Hearn, of Lowell (using Bedford stone), $151,962; (using local granite), $158,962; Hooper-Waters Co., of Boston, $139,487; B. H. Wiggin Co., of Lowell, $136,843; Woodbury-Leighton Co., of Boston, $152,945.

SPRINGFIELD, MASS.—Plans have been completed by Joseph C. Schaeffler & Co., Archs. and Engrs., Tremont Bldg., Boston, for an 8-story and basement warehouse, covering 18,750 sq. ft. of land, to be erected at Springfield. The general contract has been awarded to the CONCRETE ENGINEERING CO. The building will be erected of reinforced concrete.

WEBSTER, MASS.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Webster, bids for which were received on Sept. 14 and given in issue of Sept. 22, to J. E. & A. L. PENNOCK, Land Title Bldg., Philadelphia, Pa., at $52,920; time, Nov. 1, 1911.

CHELSEA, MASS.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded the contract for the construction of a post-office at Chelsea, to CONROY BROS., 217 West 125th St., New York, at $16,940; time, Dec. 1, 1911.

NEW BRITAIN, CONN.—The New Britain Machine Co. plans the erection of a 4-story office building adjoining their factory on Chestnut St. The structure will be 38 × 40 ft. and of brick with stone trim and gravel roof. A power-house, 22 × 40 ft., of brick and stone and gravel roof is also contemplated.

NEW YORK, N. Y.—Plans have been filed for a 6-story elevator apartment house to be erected by the Sun Construction Co., 1400 Fifth Ave., on the south side of 157th St., 200 ft. east of Broadway. The building will have a frontage of 75 ft. and a depth of 86.11 ft., with a facade of brick and limestone. Benjamin Neiberg is Pres. and Gronenberg & Leuchtag, 3 West 22d St., are the Archs. Estimated cost, $80,000.

Plans have been filed for a 12-story fireproof elevator apartment house at the southeast corner of Park Ave. and 78th St., for the No. 875 Park Ave. Co., of which A. M. Janpole is Pres., at a cost of $1,000,000. The building will have a facade of brick with limestone and terra cotta trimmings and will contain apartments for 48 families and will be equipped with four electric passenger elevators. George and Edward Blum, 505 Fifth Ave., are the Archs.

Plans have been filed with Rudolph P. Miller, Bldg. Supt., for a 7-story brick loft, to be erected at 153 to 159 West 15th St., for the Luray Construction Co., of which Henry W. Perelman is Pres. The building will have a facade of brick, with a frontage of 80 ft. and a depth of 90 ft. The erection of the building will cause the demolition of four old-fashioned 3-story and basement high stoop dwellings. Mitchell and Michael Bernstein, 24 East 23d St., are the Archs. Estimated cost, $100,000.

NEW YORK, N. Y.—Trinity Church Corporation has filed plans for another improvement at the northwest corner of Clark and Dominick Sts. It will be a 4-story loft building, covering a plot 75 × 125 ft., now containing several old tenements. Renwick, Aspinwall & Tucker, 320 Fifth Ave., the Archs., have prepared for a foundation sufficiently heavy to carry two additional stories. Estimated cost, $60,000.

Designs and specifications for the group of buildings to be built for Montefiore Home on Gun Hill Road, in the Jerome Ave. section of the Bronx, will be supplies by Arnold W. Brunner, 33 Union Sq., East, and Buchman & Fox, 11 East 59th St. The cost of the improvements is estimated at about $1,000,000.

Plans have been filed for a 12-story office building on the north side of 40th St., 92 ft. west of Madison Ave. The building will be an extension to the old 4-story house of Mrs. Clarence M. Hyde, which was leased a few months ago to the Anderson Auction Co. and the Metropolitan Art Association. N. C. Mellen, 45 West 34th St. is the Arch. The cost is estimated at $100,000.

NEW YORK, N. Y.—Ground has been broken by the Bush Terminal Co., 100 Broad St., for its new freight delivery and loft building at 29th St., between First and Second Aves., Manhattan, and it is expected that is will be ready for occupancy in eight or nine months. The present plans and specifications call for a structure which will cost approximately $300,000. In its general features it will correspond to the South Brooklyn loft buildings. Concrete and steel will be practically the only materials used, and an automatic sprinkler system will be installed throughout. The building will have a frontage of 100 ft., a rear width of 115 ft., and a depth of 98 ft. Altogether it will contain about 100,000 sq. ft. of space, 90,000 sq. ft. of which is to be leased to manufacturers and wholesalers, while 10,000 sq. ft. on the ground floor will be reserved for the transfer station.

NEW YORK, N. Y.—Bids will be received by the Department of Parks, until 3 p. m., Oct. 13, for furnishing all the labor and materials for completely erecting and constructing, additional greenhouses in the Botanical Garden, in Bronx Park, in the City of New York. Charles B. Stover is Pres.

NEW YORK, N. Y.—Bids will be received until 3 p. m., Nov. 3, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing a heating and ventilating system, electric elevation equipment, for the completion of the superstructure, and for installing a pneumatic door-operating system at the U. S. post-office, New York. McKim, Mead & White, 160 Fifth Ave., are the Archs.

The following bids were received on Oct. 3, by C. B. J. Snyder, Supt. of Bldg., Dept. of Education; Item 1 for installing heating and ventilating apparatus in addition to and alterations in Erasmus High School, on the easterly side of Flatbush Ave., about 205 ft. north of Grant St., Boro. of Brooklyn; Dan. J. Rice, 103 Park Ave., $52,808; Frank Dobson, 319 East 53d St., $53,285; Willis & Geoghegan, 537 West Broadway, $54,234.

NEW YORK, N. Y.—Plans have been filed for a 1-story industrial school to be erected in the central portion of Randall's Island, opposite East 120th St., and to be known as the Children's Hospital and Schools. The building will have a frontage of 191 ft. and a depth of 31 ft., with two extensions, each 31 × 50 ft. William Flanagan, Arch. for the Department of Charities, has placed the cost of the building at $60,000.

Plans have been filed by the Huldana Realty Co. for the erection of two 6-story tenements on the south side of 15th St., 150 ft. east of Ninth Ave., each with a frontage of 50 ft. and a depth of 90.2 ft. The building will have accommodations for 72 families. The cost is estimated at $90,000 by John C. Watson, Arch., 217 West 125th St.

BUFFALO, N. Y.—Bids will be received by Francis G. Ward, Comr. of Public Wks., until 11 a. m., Oct. 7, for the erection of a 2-story brick engine-house to be known as Engine House No. 34, to be located on the east side of Main St., near Woodbridge Ave.

BUFFALO, N. Y.—The Fleischmann Co., 71 West Eagle St., has completed plans for a 3-story brick office building, 25 × 110 ft., to be erected at 262 Oak St. Esenwein & Johnson are Archs., 777 Ellicott Sq. Bldg.

BUFFALO, N. Y.—The Common Council of the City of Buffalo has adopted a resolution authorizing Francis G. Ward, Comr. of Pub. Wks., City and County Hall, to have plans and specifications prepared and to advertise for bids for the construction of a 12-room brick and fireproof addition to School No. 3 at Perry, Illinois and Mississippi Sts., on land, the purchase of which has been authorized.

Preparations for the erection of Buffalo's new Roman Catholic Cathedral at Delaware Ave. and West Union St. are well advanced and actual work on the construction of the new building will be begun in about 60 days. Several architects are now working on plans for the structure and it will be a combination of stone and marble and of Gothic design. When completed the cathedral, exclusive of furnishings, will represent an outlay of approximately $500,000. It will be 100 ft. wide in the main, 250 ft. long, 100 ft. high, and about 150 ft. wide in the transcept. The site selected for the building is 300 ft. square. Charles H. Colton is Bishop of the Diocese.

ALBANY, N. Y.—The bids received on Oct. 3 by the Board of Contract and Supply for the construction of a new Third Precinct Police Station on North Pearl St., between Livingston Ave. and Wilson St., were: Antoine Ganter & Son, $39,650; Gick & Sayles, $36,775; John J. Kelly, $33,447; Charles C. Rigney, $36,522; M. L. Ryder Building Co., $36,450; Feeney & Sheehan, $36,800; R. P. Sewall & Son, $38,658; Morris Kantrowitz, $36,500; Peter Keeler Building Co., $36,333; James J. Finn & Son, $35,500. The bidders were all of Albany. Isidore Wachsman is Secy. of the Bd.

SYRACUSE, N. Y.—The Church of St. Anthony de Padua, Rev. Francis Quinn, Pastor, has had plans completed by Russell & King, Archs., Snow Bldg., for a 1-story and basement church building to be erected at Midland Ave. and Colvin St., at an estimated cost of $100,000.

SCHENECTADY, N. Y.—The Board of Supervisors, of Schenectady County have been authorized by the State Health Commissioner to erect, at Glenville, a hospital for the treatment of tuberculosis.

RAYBROOK, N. Y.—The bids received for the construction of employees' building at the State Hospital for Incipient Tuberculosis at Raybrook, on Sept. 22, including heating, plumbing and electric work, were: A. Pasquini, New York, $78,800; Peter Keeler Building Co., Albany, N. Y., $79,822; Branch & Callanan, Saranac Lake, N. Y., $90,000; Proctor Mfg. Co., Ogdensburg, N. Y., $95,900; Reid & Fitzgibbons, Ogdensburg, $93,800. F. B. Ware is State Arch.

PERRYSBURG, N. Y.—Bids are also being received by Francis G. Ward, for the construction of the J. N. Adam, Memorial Hospital for the cure of incipient tuberculosis at Perrysburg. There will be three buildings and powerhouse, including masonry, iron-work, carpentry, heating, plumbing, ventilating, etc., in accordance with plans and specifications at the office of the Trustees of the Hospital, Room 411, White Bldg.

ASBURY PARK, N. J.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Asbury Park to WILLIAM H. FISSELL & CO., 1133 Broadway, New York, at $98,196; time, Dec. 1, 1911.

SOHO (Newark post-office), N. J.—Bids will be received by the Building Committee of the Essex County Board of Freeholders, Court-house, Newark, N. J., at 3 p. m., for the construction of a fire-house at Soho. Louis E. Voorhees, Chn. Pub. Bldgs. Com. Hurd & Sutton, Union Bldg., Newark, are the Archs.

WEST HOBOKEN, N. J.—The Bianchetti Construction Co., 335 West 24th St., New York, will erect a 20-family apartment house on the northeast corner of Central and Paterson Aves., West Hoboken. The building will be of brick, five stories in height, and 50 × 90 ft. The Central and Paterson Aves. sides of the structure will be faced with pressed brick, trimmed with terra cotta and galvanized iron cornice. Emil Guhl, Arch., 19 Charles St., Jersey City, prepared the plans for the building.

MONTCLAIR, N. J.—The Delaware, Lackawanna & Western R. R. Co. has forwarded to the Montclair town officials, a set of plans and specifications of its proposed terminal in Montclair. The drawings provide for improvements to cost about $500,000. Leonard Stollman, Counsel for the railroad, will soon announce what the road proposes to do, and what is expected of the Town in return. The plans provide for a terminal building, with six tracks, on the style of the structure at Hoboken. The ticket office and waiting-rooms will be at the south side of the train sheds, facing Bloomfield Ave. There is to be a wide concourse on three sides, with ample space for all vehicular traffic. Part of the present freight yard will be laid out with grass plots and flower beds. It is proposed to locate the new freighthouse and yards between Pine St. and Bay St., with entrance from the latter thoroughfare. No provision is made in the plans for the elimination of the Bloomfield Ave. grade crossing, which is now a subject of litigation between the Town and the Railroad Company. F. L. Wheaton is Mgr. of Constr., Hoboken, and G. J. Ray is Ch. Engr. of Hoboken.

JERSEY CITY, N. J.—Plans are being prepared by Rowland and Eurich, Archs., 15 Exchange Pl., Jersey City, for the erection of an office building on the southwest corner of Montgomery and Greene Sts. for the Jersey City Evening Journal. The building will be of concrete and steel construction, three stories in height, and 50 × 70 ft. The estimated cost of the building will be about $40,000. Bids will be received soon.

MORRIS PLAINS, N. J.—Bids will be received by the Board of Managers, at the New Jersey State Hospital, Morris Plains, until 4 p. m., Oct. 8, for furnishing the material required in the erection of a kitchen building, equipping and furnishing kitchen, painting dormitories in the dormitory building, and erecting tuberculosis shack. John C. Eisele is Pres. of Bd.

TRENTON, N. J.—The Trenton Board of Education is preparing for the erection of an $80,000 school house on Rutherford Ave.

BUTLER, PA.—Frank Koch & Sons, hardware dealers, recently purchased a lot, 30 × 60 ft., on Cherry Alley, opposite the building in which the Koch hardware store is located, on which they will erect a 3-story brick building for wareroom purposes.

*CHAMBERSBURG, PA.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 16, for the construction complete (including plumbing, gas piping, heating apparatus, electric, conduits and wiring), of the U. S. post-office at Chambersburg.

GREENSBURG, PA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Greensburg, to M. YEAGER & SON, Danville, Ill., at $87,895; time, Dec. 1, 1911. Bids were received on Sept. 26, list of which was given on Sept. 29.

EAST LIBERTY (Pittsburg post-office), PA.—Bids are being received on the wrecking, excavting and foundation to street level, for the proposed 6-story building to be erected at Penn and Shady Aves. by J. S. Crutchfield. The superstructure contract will be awarded later on. Thomas Hannah, Keenan Bldg., Pittsburg, is Arch. Estimated cost, $150,000.

ERIE, PA.—Plans for a portion of the proposed building to be erected at Seventh and Peach Sts., by G. Daniel Baldwin, have been filed with the Building Inspector. The portion of the structure mentioned will cost $20,000 and will occupy the southwest corner of the street intersection. The entire building when completed will cost $150,000, it is stated.

PHILADELPHIA, PA. — JOSEPH C. BOGGS, 5800 Cedar Ave., will erect 76 2-story dwellings, 14 × 31 ft. each, at Nos. 221 to 257 and 220 to 256 Stella St., and Nos. 220 to 256 and 221 to 257 Mayfield St., to cost $125,800.

PHILADELPHIA, PA.—Bids were received as follows on Sept. 28 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C. for improvements in the Immigration Station, Philadelphia: John R. Wig-

gins & Co., Heed Bldg., Philadelphia, $17,466; Edward Fay & Son, 1521 Raustead St., Philadelphia, $16,980; P. J. Hurley, 1216 Chancellor St., Philadelphia, $17,200; Turner & Stewart, Camden, N.J., $19,333; M. P. Wells, Witherspoon Bldg., Philadelphia, $16,000; Jacob Bugger, 2124 Cumberland St., Philadelphia, $24,667; Wolters, Park & Mellon, Philadelphia, $17,867; American Paving & Construction Co., 211 South Ninth St., Philadelphia, $19,370; J. F. McCloskey, 210 New St., Philadelphia, $18,000; Gilpin, Guernsey Co., Philadelphia, $15,797; Edward F. Fender Co., Land Title Bldg., Philadelphia, $15,990.

PITTSBURG, PA.—D. Simpson & Co., Archs., are receiving bids for the erection of a residence on Fifth Ave., near Woodlawn Ave., East End, for L. W. Hicks. The cost is estimated at $40,000.

The contract for constructing a warehouse for Heller, Perrin & Co., wholesale grocers, 67 Chatham St., has been awarded to W. J. KISSOCK, 2209 Bedford St., Pittsburg, at $40,000.

DUQUESNE, PA.—Bids are being received by William Reed, Boro. Clk., for constructing a Borough building, to cost about $50,000. The first bids received were rejected as being excessive.

RETREAT, PA.—Bids for constructing an alms-house building at Retreat will be received at the office of the Central Poor District of Luzerne County, 20 North Franklin St., Wilkes-Barre, until noon, Oct. 13, according to the plans and specifications at the office of McCormick & French, Archs., Second National Bank Bldg., Wilkes-Barre. Thomas Cassedy is Secy., 20 North Franklin St.

TYRONE, PA.—Sholler & Hersh, Archs., of Altoona, were selected to prepare plans for the proposed high school building in Tyrone. The structure will be on Lincoln Ave. S. C. Bowen and James B. Grazier are members of the Building Committee. Estimated cost, $40,000.

YORK, PA.—Bids were received as follows on Sept. 29 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the post-office at York. These bids are supplementary to those received on Sept. 13, list of which were given on Sept. 15, and are on a number of various propositions and alternates: John G. Unkefer, Minerva, Ohio, $54,000, $39,000, deduct $2,500, add $4,500; M. P. Wells, Witherspoon Bldg., Philadelphia, $11,304, deduct $2,471, add $4,070; William H. Fissell & Co., 1133 Broadway, New York, $51,625, deduct $1,750, add $5,200; J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, $50,800, $39,800, deduct $3,400; Richard E. Heningham, 1 Madison Ave., New York, $45,794, $37,850 deduct $1,883, add $3,500; Charles H. Peckworth, 415 Hudson St., New York, $39,542, deduct $3,400, add $3,460; Charles McCaul Co., Tenth and Sansom Sts., Philadelphia, $51,110, $43,110, $49,110, deduct $2,100, add $4,100.

BALTIMORE, MD.—The E. J. GALLAGHER REALTY CO., 2537 East Monument St., was recently granted permission to begin the erection of 38 2-story brick houses to cost about $40,000. Twelve of them will be on Lakewood Ave., between Monument and Madison Sts., and 26 on Grove St., between Monument and Madison Sts. The proposed dwellings will each have a frontage of 13 ft. and a depth of 44 ft. They will have stone foundations, cement cellars and will be lighted by gas. The work will begin immediately, it is stated.

Glidden & Friz, Archs., Glenn Bldg., have completed plans for an apartment house to be erected at the corner of 31st and Charles Sts. The structure will be six stories high. It will be built of limestone, gray tapering brick and terra cotta, and will be 168 ft. wide, with a depth of 125 ft. There will be several entrances to it, the main one opening on Charles St. The interior will be finished in hardwood. The cost is estimated at $275,000. The construction work will start soon. Eugene Levering, 26 South St., Baltimore, is interested.

Plans have been prepared for the proposed addition to Lehman's Hall at 853 North Howard St. and bids will be asked for soon. It will be of brick, with steam heat, gas and electric lighting, plumbing and tile work. Wyatt & Nolting, Keyser Bldg., are the Archs.

BALTIMORE, MD.—The GEORGE A. FULLER CO., Munsey Bldg., Washington, D. C., has been awarded the contract for the erection of an office building at the northeast corner of Calvert and Fayette Sts., for the Frank A. Munsey Co., publisher of the Baltimore "News," care of Stuart Oliver, Gen. Mgr. Plans were prepared by McKim, Meade & White, 160 Fifth Ave., New York, and Baldwin & Pennington, Professional Bldg., Baltimore, Md., Associate Archs. It will be 18 stories, 75 × 95 ft., of brick, stone and slag roof, with steam heat, gas and electric lighting, plate glass front, steel, fireproof. Noted last week.

BALTIMORE, MD.—Robert C. Ullrich, Arch., Gunther Bldg., has been commissioned by Rev. J. Lieutonikas to prepare plans and specifications for the proposed addition to the church of St. John the Baptist, at the corner of Paca and Saratoga Sts. It will be of stone, with slate roof, steam heat, gas and electric lighting, plumbing and tile work. The cost is estimated at $40,000.

NATIONAL SOLDIERS' HOME, VA.—Bids will be received by John T. Hume, Treas., Southern Branch, N. H. D. V. S., National Soldiers' Home, until 1.30 p. m., Oct. 25, for furnishing the labor and material for the following: Drain pipe, general mess hall and barrack, Co. L; drying yard enclosure; ice storage room; furnishing and installing pump in hospital; steam piping from power-house to main laundry and fire department.

FAYETTEVILLE, N. C.—It is reported that the Atlantic Coast Line R. R. Co. is planning the erection of a union passenger station here. The Raleigh & Southport Ry. Co. will also use the proposed station, on a rental basis. Cost, $40,000. D. W. Gross, is Engr. of Constr., at Wilmington, N. C., of the A. C. L., and J. A. Mills is Pres. of the R. & S. Ry., at Raleigh, N. C.

ATLANTA, GA.—The Board of Education at a recent meeting rejected all the bids received for the construction of a school at Georgia Ave. and Formwalt St. as being in excess of the money appropriated. Harry Leslie Walker, Candler Bldg., Atlanta, the Arch., will go over the plans and change the specifications, it is stated.

We are officially advised that the G. & W. MFG. CO., Engrs., 30 Church St., New York, has been awarded the contract for miscellaneous iron and steel work for the U. S. Penitentiary at Atlanta, at $61,073.

DEMOPOLIS, ALA.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 7, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Demopolis.

*HARRIMAN, TENN.—James Knox Taylor Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Harriman, bids for which were received on Sept. 16 and noted on Sept. 22, to HARRY A. BISHOP, of Chicago, Ill., at $48,150; time, Nov. 1, 1911.

VAN WERT, OHIO.—Frank L. Packard, Hayden Bldg., Columbus, Ohio, has been commissioned to prepare plans and specifications for a $100,000 high school building.

CLEVELAND, OHIO.—Bids will be received about Nov. 1 by the Y. M. C. A. architect for the construction of the proposed central building at the corner of Prospect Ave. and East 22d St.

All the bids for the construction of the two proposed branch library buildings the "Quincy," at East 79th St. and Quincy Ave., and the "Sterling," Central Ave. and East 30th St., opened at a recent meeting of the Public Library Board, were rejected.

The contract for constructing the proposed warehouse and wholesale grocery establishment for the William Edwards Co., 1436 West Ninth St., has been awarded to GEORGE B. McMILLAN, Bangor Bldg., Cleveland. It will be an "L" shaped structure of brick and timber construction with concrete foundations, having a frontage on West Ninth St. and on St. Clair St. west of West Ninth St. The West Ninth St. front will be four stories in height with basement and at the foot of the hill along the railroad tracks the building will be six stories with basement. It will contain 450,000 sq. ft. of floor space. Switches from the railroad will enter the building. The approximate cost is $300,000.

FAIRPORT (Fairport Harbor post-office), OHIO.—Franz C. Warner, Arch., Citizens' Bldg., Cleveland, has completed the plans for the proposed school building to be erected at Fairport. It will contain twelve rooms and an auditorium, the estimated cost being about $65,000. Bids will be received about Oct. 15 by the Board of Education of Fairport.

MOUNT AUBURN (Cincinnati post-office), OHIO.—Eight or ten residences will be commenced in Mount Auburn this fall by Harvout Bros., Hale and Reading Road, Aron. All will be of brick construction and are to be erected on Highland Ave. and Kinsey Pl., close to McMillan St. Each will have a 40-ft. lot. The entire investment, including the cost of the real estate, will be about $50,000.

COLUMBUS, OHIO.—The Knights of Pythias of Columbus will erect a 10-story lodge and office building at the corner of High and Pearl Sts., to be known as "Pythian Castle." Estimated cost, $300,000.

DELAWARE, OHIO.—Mark Simonton, Pres. of the Simonton Construction Co., Columbus Savings and Trust Bldg., Columbus, has been awarded the contract for the underground work and wiring of the 12 buildings, constituting the Girls' Industrial School at Delaware. The work will require several months to complete. The same company has the contract for the installation of the equipment of the new power plant being erected at the Girl's Industrial Home.

LANCASTER, OHIO.—Bids will be received by the Board of Trustees of the Boys' Industrial School, on Oct. 27, for boilers for the institution, from plans prepared by Harold M. Bush, 55 North Ninth St., Columbus. F. C. Gerlach is Secy. of the Board.

FORT WAYNE, IND.—The Pennsylvania R. R. Co. has filed plans with the Board of Public Works on which bids will be asked, for the construction of a new passenger station. The estimated cost is $200,000. Alex. C. Shand is Ch. Engr., at Philadelphia, Pa.

FRANKFORT, IND.—The County Commissioners of Clinton County are preparing to ask for bids for the construction of a jail to replace the present one, which has been condemned.

INDIANAPOLIS, IND.—The trustees of the Methodist Hospital, have ordered plans on which bids will soon be asked, for the construction of a second pavilion or wing for the hospital building. The estimated cost is $100,000. The contract for the excavation of the first pavilion or wing has been let to the JOHN A. SCHUMACHER CO., 820 East St. Clair St., Indianapolis.

INDIANAPOLIS, IND.—Bacon and Griswold, Archs., State Life Bldg., are preparing plans and will receive bids, when completed, for the construction of a 12-story hotel on north Senate Ave.

TERRE HAUTE, IND.—The Germania Hall Association, recently incorporated, with Albert Standan as Pres., has ordered plans for the construction of a building.

ARCADIA, MICH.—J. C. Peterson, Traverse City Bank Bldg., Traverse City, Mich., have been commissioned to prepare plans for a brick school building for the Board of Education of Arcadia. D. A. Hall, Pres.

BATTLE CREEK, MICH.—Robert Seyforth, 206 La Salle St., Chicago, Ill., has been commissioned to prepare plans for a 3-story building for the Postom Cereal Co., C. L. Post, Pres., Battle Creek. The building is to be used as a printing building.

BAY CITY, MICH.—Pratt & Koeppe, 514 Crapo Bldg., are taking figures on a parochial school for St. Stanilans Kostke Roman Catholic Church, Rev. E. Kozlowski, Pastor, Grant and Kosciusko Aves., Bay City. The building will cost $50,000.

HOUGHTON, MICH.—We are officially advised that the contract for constructing the Masonic Temple at Portage and Sheldon Sts., has been awarded to HERMAN GUNDLACH, of Houghton. The building will be fireproof and of concrete and stone construction. It will be four stories high and 85 × 100 ft. Estimated cost, $62,000. Maass Bros., of Houghton, are the Archs.

JACKSON, MICH.—Extensive improvements are planned at the Jackson State Prison for the coming year, the cost of which will be about $239,000. A new cell block to take the place of the old east wing is among the improvements. This, it is figured, will cost approximately $200,000. A. W. Hall is City Engr.

SAGINAW, MICH.—Shattuck and Hussey, 153 La Salle St., Chicago, Ill., have been commissioned to prepare plans for a brick and stone building, three stories high, for the Y. M. C. A. of Saginaw, H S. Markell, Secy. Cost, $50,000.

BAY CITY, MICH.—Pratt & Koeppe, Crapo Bldg., have let the general contract for the Grace Episcopal Church, Rev. E. B. Jermin, Pastor, 205 West Midland St. to A. R. MILLER, Midland and Woodbridge St., Bay City. Cost, $201,000.

CHEBOYGAN, MICH.—Edward De Mar, of Sault Ste. Marie, Mich., let the steam heating contract on Sept. 26 for the proposed 3-story and basement hotel, 58 × 107 ft., for A. M. Gerow of Cheboygan, to J. J. POST HARDWARE CO., 308 North Main St., Cheboygan. C. W. Lyons is Lessee, 426 North Main St.

DETROIT, MICH.—The Board of Education William J. Lee, Secy., 50 Broadway, held a special meeting on Sept. 28 to complete details for the erection of the following schools and additions. An 18-room high school at Grand River Ave. and Boulevard, cost, $135,000. A 16-room grade school at Forest and Newland Aves., cost $85,000. A 16-room school at Warren and Beechwood Aves., cost $75,000. A 16-room school at Jefferson and Fox Creek, cost $73,000. A 12-room school to replace Clay school, cost $50,000. An 8-room addition to Fairbanks school, cost $30,000. An 8-room addition to Eastabrook school, cost $30,000. A 6-room addition to Franklin school, cost $20,000. Malcomson & Higginbothom, Moffat Bldg., are Archs. and Ammerman, McColl & Anderson, Penobscot Bldg. are Engrs.

ROGERS CITY, Mich.—George H. Steffens, 1229 Williamson Boulevard, Cleveland, Ohio., has let the general contract for the proposed bank building for the Presque Isle County Bank, P. H. Hoeft, Pres. Rogers City, to THOMAS COLLINS, of Alpena, Mich. and Steam Heating to J. W. MILLER, of Alpena.

CHICAGO, ILL.—Frederick H. Gansbergen, 138 Washington St., Chicago, plans the erection of an apartment building on Lincoln Boulevard west, between Belden Ave. and Anita Terrace. It will be three stories in height, of trussed brick and stone and will contain 24 apartments. Estimated cost, $200,000. Perkins & Hamilton Archs., 140 Dearborn St., are preparing the plans.

Hatzfield & Knox, Archs., 143 Dearborn St., have awarded the following contracts: Masonry to PERRY TAYLOR, carpentry to GUS WENDELL, plumbing to JOSEPH B. WEBBER, plastering to JOHN ROWLANDS, for a 5-story building, 58 × 110 ft., at Irving Park Boulevard and 42d Court, for the Myrtle Masonic Lodge, E. A. Washburn, Chn. of the Buildinng Committee. It is to be of steel, tile and brick fireproof construction, with steam heating.

Ottenheimer, Stern & Reichert, 134 Monroe St., awarded steel work to HANSELL ELCOCK CO., Archer Ave. and Butler Sts., for a 7-story warehouse, 92 330 ft., at 39th and La Salle Sts., for the Hartman Furniture Co. The Architects are receiving estimates on plumbing, heating, marble, mosaic and tile work for this building.

A. S. Alschuler, Arch., 89 Jackson Boulevard, has awarded the heating and plumbing contract to J. J. DWYER, 506 Whipple St., Chicago for a 4-story warehouse 95 × 200 ft., at 35th and Loomis Sts., for Strauss & Schram. It will be of brick and mill construction.

CHICAGO, ILL.—John A. Nyden, Arch., 109 Randolph St., is preparing plans for a 2-story apartment building, 100 × 126 ft., to cost $55,000, at Argyle and Kenmore Ave. to be of pressed brick construction, with hardwood finish, mantels, consols and tile work.

The Board of Education, 143 Dearborn St., A. F. Hussander, Acting Arch., has awarded the following contracts for nine room additions to the Holmes school at 55th and Morgan Sts. Cut stone work to T. C. DIENER, 346 West 21st St.; asphalt work to AUGUST WITT, 188 Madison St.; concrete to STANDARD CONCRETE CONSTRUCTION CO., 184 La Salle St.; masonry to J. L. CONNELLY; carpentry to CHARLES E. BURQUIST; roofing to STANDARD ROOFING CO., 290 North Halsted St.; steam heating to HANLEY-CASEY CO., 37 Ohio St.; plastering to W. H. DOROTHY; painting to A. LAADEGARD and iron work to SOUTH HALSTED STREET IRON WORKS, 135 Adams St., all of Chicago.

John Ahlschlager & Son, Archs., 70 La Salle St., are receiving estimates for a 3-story building, 50 × 130 ft., to contain 16 apartments, at Montrose Boulevard and Robey St. for C. Jeffers, to be of pressed brick construction, with hardwood finish, mantels, tile work, steam heating and modern plumbing. Estimated cost $40,000.

Mr. Ahlschlager is also receiving estimates for seven stores and 17 apartments, three stories, 50 × 75 ft., to cost $75,000, at 12th St. and Douglas Boulevard, for H. Kerr, to be of pressed brick construction, with hardwood finish, consols and tile work.

We are officially advised that bids will be received at once, for the construction of an 18-apartment building at the ... corner of Racine and Sunnyside A... structure will be three stories hig... M. Barton, Medinah Bldg., Chica... Arch. and Thomas Conran is ... The cost will be $65,000. Noted ... 22.

ROCKFORD, ILL.—SCHMAL... BROITZMAN of Rockford, have ... to build a dormitory at Rockford ... $55,000. Pond & Pond, Archs., ... Buren St., Chicago, prepared the ... building and furnishings will co...

ELGIN, ILL.—Postle & Mahler, 204 Dearborn St., Chicago, have ... the following contracts: Mason... CHARLES E. GERTZ & SON; carp... F. L. ACKMAN; steam heating ... MANARD and plastering to C. ... for a $40,000 church, 60 × 100 ft. ... for St. John's Lutheran congregati... building is to be of pressed brick c... tion, with slate roof.

ST. CHARLES, ILL.—Schock & ... Archs., 164 Dearborn St., Chicag... awarded the masonry to JUBY BR... Elgin, Ill., for a $75,000 church ... Charles, for St. Patrick's congregat... is to be of brick construction, wit... roof, steam heating and hardwood f...

HIGHLAND PARK, ILL.—W. D. ...nn, Arch., 912 Evanston Ave., Chicago, has awarded the masonry to J. MATHEWS, Evanston, Ill.; carpentry to BREWER & VAN IDERSTEINE, plumbing to C. P. SULLIVAN, Hyde Park, and plastering to CORCORAN BROS., Evanston, for a modern 2-story residence, 35 × 40 ft., at Highland Park, for C. C. Hughes.

BLOOMINGTON, ILL.—A. Moratz, Arch., 109 Randolph St., Chicago, is preparing plans for a 2-story addition, 33 × 6..., at Bloomington, for the St. Joseph hospital, to be of brick construction, with slate roof, hardwood finish, steam heating and modern plumbing.

MT. CARMEL, ILL.—Bids for the erection of the Fraternity Hall for the Masonic and Odd Fellows' Lodges of this city, will be received by the Building Committee until 4 p. m., Oct. 15. Charles Henry & Son, Akron, Ohio, are the Archs. J. M. Mitchell, Chn. and Chris. Launer, Secy. of Com.

PLATTEVILLE, WIS.—Bids were received as follows on Sept. 29 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for approaches at the U. S. post-office at Platteville: Henry Ferge, Milwaukee, Wis., $3,500; Albert Moy, Dubuque, Ia., $8,464.

DECORAH, IOWA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, has awarded contract for the construction of a post-office building at Decorah, Iowa, to HARMON BROS., of Williamsport, Pa., at $56,522; time, Nov. 15, 1911.

DULUTH, MINN.—Plans are being prepared for a 7-story building for hotel purposes on East Superior St. near Ninth Ave. for G. G. Hartley. It will have 300 rooms and a roof garden.

*CHISHOLM, MINN.—Bids will be received by B. R. de Lorimer, Clk. Bd. of Education, until noon, Oct. 17, for furnishing all the labor and materials for the construction of a school building in Chisholm. A. Y. Peterson is Chn. of Bd.

ROCHESTER, MINN.—The State Board of Control, Charles Halvorson, Chn., St. Paul, will receive bids until 2 p. m., Oct. 17, for the general construction of a 3-story pressed brick and cut stone detention hospital at the State Insane Hospital at Rochester. The plans were prepared by C. H. Johnston, State Arch., St. Paul. Cost, $60,000.

ST. PAUL, MINN.—The contract for the general construction of the new Lowry building to be built at Fourth, Fifth and St. Peter Sts., has been awarded to WELLS BROS. Co., 98 Jackson Boulevard, Chicago, Ill., at $165,000. It will be built by the Arcade Investment Co., of which Horace Lowry, Minneapolis, Minn., is Pres. It will be seven stories in height at the present time, but will be enlarged to twelve stories later. Kees & Colburn, Minneapolis, are Archs. Cost, complete, $600,000.

ST. PAUL, MINN.—Local reports state that the construction of the proposed 6-sty fireproof Y. W. C. A. building, the contract for which was supposed to have been let to the George J. Grant Construction Co., New York Life Bldg., St. Paul, has been postponed until spring. The foundation is in. C. H. Johnston, St. Paul, is Arch.

Plans are being prepared by C. A. Pear, Arch., Pittsburgh Bldg., St. Paul, for improving the Pittsburgh Building owned by T. C. Fulton. Three additional stories will be built on the present 8-story structure, three new electric passenger elevators will be added, besides mail chutes and marble and tile work. Cost, $100,000.

The Sisters of St. Joseph, Mother Seraphine, Superior, propose to build a ...-story pressed brick and cut stone, novice home on Randolph St. Plans are being prepared by J. H. Wheeler, Arch., New York Life Bldg., St. Paul. The contract for the erection of the foundation has been awarded to JOHN H. HOFFMAN, Forbes ..., St. Paul, at $12,900. The other bidders were: Lauer Bros., $13,290; St. Paul ... Co., $13,345; J. H. Donohue, $14,73...; Geo. J. Grant Construction Co., $14,98... Superstructure bids will be taken in the spring. Cost, $75,000.

PLATTSMOUTH, NEB.—Jas. Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Plattsmouth, to the GENERAL CONSTRUCTION CO., Hathaway Bldg., Milwaukee, Wis., at $3..., time, Nov. 1, 1911. List of bids received on Sept. 19, was given last week.

OMAHA, NEB.—Jarvis Hunt, Arch., 98 Jackson Boulevard, Chicago, has awarded the general contract to JAMES STEWART & CO., Lincoln Trust Bldg., St. Louis, Mo., for a 2-story office building for the Union Pacific R. R. Co., at Omaha. It will be of steel and tile fireproof construction and

will cost $800,000. The general contractor is receiving sub-bids at their Chicago office, 279 Dearborn St.

ABERDEEN, S. DAK.—Patton & Miller, 140 Dearborn St., Chicago, Ill., are receiving estimates on excavating work for a high school at Aberdeen. The superstructure will be figured on later. It will be of steel, tile and pressed brick construction, with hardwood finish and hot blast steam heating. Estimated cost, $125,000.

KANSAS CITY, MO.—The contract for the construction of the James School, at Scarritt and Topping Aves., was let by the Board of Education recently to SHINNICK & WOOLLING, the lowest bidders, at $82,300. The school will be ready for occupancy at the beginning of the next school year. The plans call for eighteen rooms.

HOUSTON, TEX.—The contract for the erection of a mechanical laboratory and power house for the William M. Rice Institute was awarded recently to the WILLIAM MILLER & SONS CO., 28 Federal St., Pittsburg, Pa., at $182,430. The building will be about 200 ft. long and will be situated near the artesian well recently sunk on the Institute site. It will be two stories in height, of brick and Ozark marble. The mechanical laboratory will be located in front with the machine shops and power house in the rear. The contract calls for completion of the work within twelve months after the contract is signed.

HOUSTON, TEX.—Plans for the proposed central exchange at Houston of the Southwestern Telephone and Telegraph Co., to be erected on the Sewall property, Fannin St. and Capitol Ave., are about completed. H. J. Pettengill is Pres. and L. S. Prentice, is Dis. Commercial Mgr.

PORT LAVACA, TEX.—Bids will be received by the Commissioners of Calhoun County, until 10 a. m., Oct. 10, for all the labor and material required for the erection and completion of the Calhoun county court house, to be located in Port Lavaca. Willett Wilson is County Judge, at Port Lavaca, and W. C. Best is County Clk.

SUTHERLAND SPRINGS, TEX.—The Sutherland Springs Town & Land Co. has donated 100 acres of land here to Mrs. W. A. Cassidy and Mrs. Clara Cable, both of Kansas City, Mo., for the site of a hotel and sanitarium to cost $250,000. The hotel and sanitarium will be used for a rest cure resort.

SEATTLE, WASH.—An 8-sty commercial and office building to be erected at the southwest corner of Fifth Ave. and University St. is planned by the Metropolitan Building Co., Fourth and Union Sts. The building will cost about $200,000.

HILLYARD, WASH.—W. N. Skinner of the furniture firm of McHenry & Skinner, of Spokane, plans to begin the erection of a business block on his property in Hillyard, just east of the Shafer cafe and facing the Great Northern right-of-way. According to the architect's plans the structure will have a ground measurement of 127 × 35 ft. and will be built of concrete. The height of the building is yet to be decided upon.

SPOKANE, WASH.—The Board of Directors of Spokane School Dis. No. 81, will receive bids until 7.30 p. m., Oct. 10, for constructing a High School building on the grounds of the South Central High School building, bids to include all plumbing and heating. L. L. Rand, Spokane, is the Arch.

LONG BEACH, CAL.—Plans for the proposed building on the Oxford property for the Pacific Electric Co., have been recently completed by Charles E. Shattuck, Arch. The structure is to be of steel and pressed brick, and will cost approximately $200,000. There are to be fourteen store rooms facing on three streets. The Pike on the south, Pine Ave. on the west and Court St. on the east. All these store rooms will be connected with a court in the rear. E. C. Denio, Long Beach Bank Bldg., is Local Atty.

LONG BEACH, CAL.—Plans for the proposed depot and hotel building to be erected by the Pacific Electric Ry. Co., at Long Beach have been prepared, and it is stated that construction work will start soon. The site selected is just east of the municipal pier. The building will be 35 × 175 ft., six stories high and of reinforced concrete construction. J. McMillan, of Los Angeles, is Gen. Mgr.

LOS ANGELES, CAL.—Arthur B. Benton, Arch, 114 North Spring St., Los Angeles, has completed plans for the Y. M. C. A. building at Ramona and Marengo Aves. It will be 5 stories high and of pressed brick. Passenger and freight elevators will be installed. Bids for construction will soon be asked. Estimated cost, $125,000.

Plans for the 4-story and basement reinforced concrete loft building to be erected on the grounds of the Los Angeles Public Market Co., at Sixth and Alameda Sts., for M. A. Newmark & Co., wholesale grocers, have been finally approved, and they will be ready for bids soon. The building will be 142 × 187 ft., of twisted steel and fabric reinforcement. Four elevators will be installed. C. E. Shattuck, 318 Mason Bldg., is Arch. Lee Camp is Engr.

The contract for erecting a residence at West Adams St. and Gramercy Pl., for E. W. Britt, will soon be awarded by A. F. Rosenheim, Arch., H. W. Hellman Bldg., Los Angeles. Estimated cost, $50,000.

LOS ANGELES, CAL.—See item under Miscellaneous Contracts "Scenic Railway."

SAN DIEGO, CAL.—JOHN CAMPBELL, Front and I Sts., has been awarded the contract for the erection of the Burnham-McMurtrie hotel, at Sixth and C Sts., at $93,000. The structure will be of concrete construction, three stories high and 100 × 150 ft. The entire cost is $125,000. MacDonald & Applegarth, Call Bldg, San Francisco, are the Archs.

*LEWISTON, IDAHO.—Bids will be received until 3 p. m., Nov. 22, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Lewiston.

SAN FRANCISCO, CAL.—Contracts for constructing a 3-story and basement Class C building at the southwest corner of Drum and Clay Sts., for Louis Zeiss, 123 Drum St., has been awarded as follows: AHLBACH & MAYER, plumbers, 75 Dorland St.; the AMERICAN CONSTRUCTION CO., Monadnock Bldg.; JOHN SPARGO, 926 Presidio Ave.; HOLM & SON, 68 Post St. Estimated cost, $42,303.

TUCSON, ARIZ.—Plans for the proposed Masonic Temple, which is contemplated by the Scottish Rites Masons, have been received by J. M. Ormsby, Chm. of Scottish Rite Hall Association. The plans call for a 2-story and sub-basement structure, to cost about $50,000, unfurnished.

GODERICH, ONT.—Bids will be received until Oct. 24, by R. C. Desrochers, Secy. Public Works Dept., Ottawa, for alterations and additions to the public building at Goderich. Plans are at the office of H. J. Lamb, Dist. Engr., London, Ont.

STRATHCONA, ALTA.—Bids will be received until Oct. 24 by R. C. Desrochers, Secy. Public Works Dept., Ottawa, for the construction of a public building at Strathcona. Plans are at the office of Joseph Greenfield, Arch., Winnipeg, Man.

REGINA, SASK.—The Board of Governors of the Saskatchewan Methodist College has approved of plans of Brown & Vallance, Canada Life Bldg., Montreal, Que., for two buildings to be erected next year. The cost is estimated at $250,000, and it is expected that the buildings will be completed by the fall of 1912.

VANCOUVER, B. C.—Bids will be received until Oct. 26 by R. C. Desrochers, Secy. Public Works Dept., Ottawa, for the construction of an examining warehouse at Vancouver. The plans are at the office of William Henderson, Arch., Vancouver, or Joseph Greenfield, Arch., Winnipeg, Man.

PORTO RICO.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 22, for the construction, complete (except elevators), of the U. S. post-office and courthouse at San Juan, P. R.

WATER SUPPLY—IRRIGATION.

BOSTON, MASS.—Bids will be received until Oct. 7, by William E. Hannan, Water Comr. for laying 3,200 ft. of 30-in., and 1,250 ft. of 24-in. water pipe in Addison St.

COXSACKIE, N. Y.—The Board of Water Commissioners is planning to enlarge the water system.

ROSLYN (L. I.) N. Y.—Bids for construction of water-works here were opened on Sept. 26. The following contracts have been awarded: For furnishing and laying pipe, W. G. FRITZ, Dover, N. J., at $63,000; for furnishing pumps, to the PLATT IRON WORKS CO., 94 Liberty St., New York, $3,130; engines to the NATIONAL METER CO., 84 Chambers St., New York, at $9,600; building pumping station to J. H. LAMBORT, Roslyn, $8,739; valves and hydrants to the FAIRBANKS CO., Lafayette and Broome Sts., New York, $4,571; Walter E. Sexton, Mineola, N. Y., is Consult. Engr.

NIAGARA FALLS, N. Y.—Robt. A. Wallace, Arch., 19 Builders' Exchange, Buffalo, has completed plans for a filtration plant building, 100 × 180 ft., 2 stories, of stone with concrete floors, to be erected by the city. Estimated cost, $60,000. W. D. Robbins, Niagara Falls, is Engr.

EAST AURORA, N. Y.—We are officially advised that contracts for the extension of water mains here have been provided for. Noted on Sept. 29.

IRONDEQUOITE, N. Y.—We are officially advised that contract has been awarded by the Summerville Water District, Irondequoite, to F. J. LE VALLEY, Lockport, and the SENECA ENGINE CO., Montour Falls, for the construction of the water-works system. Estimated cost, $20,000. J. E. Summerboys is Secy., Powers Bldg., Rochester, N. Y.

*ITHACA, N. Y.—We are officially advised that contract has been awarded by the Board of Public Works to the B. G. COON CONSTRUCTION CO., Wilkes-Barre, Pa., for clearing a reservoir site of about 40 acres, constructing an earth embankment containing about 5,000 cu. yds., constructing a dam containing about 7,700 cu. yds. of concrete and requiring the excavation of about 4,300 cu. yds. of rock and furnishing and laying about 9,000 ft. of 24-in. c.-i. pipe at $138,470. Donald M. McLeod is City Engr.

BRADLEY BEACH, N. J.—Bids will be received until Oct. 10 by the Joint Committee of the Boroughs of Bradley Beach and Avon at the Council Chamber, Bradley Beach, for constructing a flume from the easterly end of Sylvan Lake to the ocean. B. Frank Herbert is Chn.

SAEGERSTOWN, PA.—FRED YUNKER, of Mayfield, has secured contract for drilling wells in connection with the proposed water works system. The citizens have voted to issue $13,000 of bonds.

HARRISBURG, PA.—Bids were opened on Sept. 22 by the Board of Water Commissions, John A. Affleck, Pres., for constructing a covered auxiliary reservoir, of concrete, 1,000,000-gallon capacity, on Oak Knob, Reservoir Park, from plans of Charles A. Hague, 52 Broadway, New York. All bids were rejected as excessive. The bids follow: William H. Opperman, 131 Paxton St., Harrisburg, $28,000; J. N. Bastress, Union Trust Bldg., Harrisburg, $26,400; William S. Miller, Telegraph Bldg., Harrisburg, $22,430. Appropriation, $17,000.

BROOKVILLE, PA.—We are officially advised that plans have been completed for a concrete dam, filtration plant, and a new pumping station for the Brookville Water Co. Contracts will be let soon. Earle V. Guyther is Engr., Brookville.

KITTANNING, PA.—The Phillips Gas Co. will erect a new pumping station in Valley Township.

*CHAMBERSBURG, PA.—Bids are asked until 8 p. m., Oct. 19, by the City Council for laying and connecting c.-i. water pipes, special castings, etc., 16-in., 14-in., 12-in., 10-in., 8-in. and 6-in. diameter, with caulked lead joints, to form a gravity conduit about eleven miles in length, and to be connected to the existing distribution system of the borough. John Birkinbine is Consult. Engr., Odd Fellows Temple, Philadelphia, Pa.

*ERIE, PA.—We are officially advised that bids were opened on Sept. 28 for grading and cementing settling basin No. 1. Contract for excavation and grading 25,400 cu. yds. has been awarded to the T. A. GILLESPIE CO., Pittsburg, Pa., at 35 cts. per cu. yd. or $8,890, and for concrete work, 8,500 cu. yds., at $8.05 per cu. yd. or $68,425. Contract for 8,000 sq. ft. of concrete walk was awarded to PETER ELLER.

WESTERNPORT, MD.—The citizens on Sept. 27 voted bonds as follows: $75,000 for water-works; $10,000 for paving; $10,000 for a sewerage system; and $5,000 for a new bridge over Potomac River.

BRUNSWICK, MD.—Bids will be received by the Mayor and Council for furnishing and installing 4,000 ft. of 4-in. and 1,000 ft. of 6-in. c.-i. water pipe, nine fire hydrants, four 4-in. gate valves; one ton of specials. Address A. B. Hedges, Clk. and Treas. of Council.

WILLIAMSBURG, VA.—See item under Light and Power Plants.

WHEELING, W. VA.—The City Council on Sept. 20 approved bond issue estimates for water improvements to cost $8,746.

WHEELING, W. VA.—J. R. Kommer, Consult. Engr. Pittsburg, has presented plans to the Board of Control which provide for supplying water to the residents of Wheeling Heights, who reside above the level of the reservoir. The plans provide for an 80-ft. steel standpipe and a gas pumping engine which shall deliver the water from the reservoir to the standpipe, automatically regulating the pressure. The supply system was provided for in a recent bond issue. Estimated cost, $20,000. C. B. Cooke is City Engr.

ADEL, GA.—The city proposes to spend about $8,000 for water works improvements and water main extensions. R. F. Jackson is City Clk.

ATLANTA, GA.—The City Council and Bond Commission decided to advertise for bids on the Proctor Creek disposal plant. Rudolph Hering, Consult. Engr., 170 Broadway, New York, submitted plans. Estimated cost, $105,000.

OSYKA, MISS.—See item under Light and Power Plants.

DECHERD, TENN.—The city has awarded contract to C. E. MURRAY, Decherd, for the construction of water-works. Construction has begun.

*LOUISVILLE, KY.—Bids will be received by the President Board of Water Works, at the office of the Water Co., 439 Third St., Louisville, until 11 a. m., Oct. 11, for one water-tube boiler; and one 30,000,000-gallon steam turbine driven centrifugal pump. The pump is to operate against a head of 190 ft. The water-tube boiler will have a capacity of evaporating 25,000 lbs. of water per hour and will be equipped with under-fed stoker and induced draft apparatus. Plans were prepared by Theodore A. Leisen, Ch. Engr. and Supt. Louisville Water Co.

We are officially advised that bids were received as follows on Sept. 27 by the Louisville Water Co. for an intake crib and screen tower: Mansfield Engineering Co., Indianapolis, Ind., $98,850; Henry Bickel Co., Louisville, $105,950; American Engineering & Contructing Co., Chicago, Ill.; $69,800; National Concrete Construction Co., Louisville, $83,088. Engineer's estimate, $65,000. Theodore A. Leisen is Ch. Engr. and Supt.

OWENSBORO, KY.—Bids are asked until Nov. 1 by the city for a water-softening plant at the city water-works.

ATHENS, OHIO.—Bids will be received until noon, Oct. 22, by the Board of Trustees of Athens State Hospital, Dr. O. O. Fordyce, Secy., care of the Osborne Engineering Co., Engrs., 20 East Broad St., Columbus, for a 22 × 80-ft. standpipe, two 150 HP. horizontal tubular boilers and a system of steam and water piping for improving the water supply system at the State Hospital, Athens.

READING, OHIO.—Bids will be received until Oct. 11, by the Board Public Affairs, C. V. Dils, Clk., for furnishing and laying water pipe, special castings, valves and boxes and fire hydrants on Jefferson Ave., Main, Clark, Walnut and Locust Sts.

PORTSMOUTH, OHIO.—The Council on Sept. 21 adopted a resolution providing for the issuance of $300,000 of bonds for the construction of water-works.

ST. MARYS, OHIO.—Contract was awarded on Sept. 13 by the Board of Control to the HEISLER CO., for the air compressor for the water-works. Capacity, 300 cu. ft. per min.

HAMMOND, IND.—Bids were received as follows on Sept. 21 by the Board of Public Works for a new pump for the water-works: Snow Steam Pump Works, Robert Ave., near Clinton St., Buffalo, N. Y., $25,430; Wisconsin Engineering Co., Corliss, Wis., $33,950; Allis-Chalmers Co., Milwaukee, Wis., two bids, $26,680 and $32,450.

CONNERSVILLE, IND.—Contracts for constructing complete pumping station for water-works have been awarded as follows: To STOOPS, HINDS & NEAL & STOLL, Connersville, Ind., reservoir, pumping station, dismantling and removing and re-erecting old machinery, etc., laying water pipe, laying by-passes and erecting buildings for booster station and well houses, at $22,280; to WILLIAM FOX, Connersville, for furnishing material and drilling of wells; to GENERAL ELECTRIC CO., Schenectady, N. Y., furnishing vertical electric motors and turbo generator, condeser, etc., $7,000; to COOPER-HEWITT CO., Louisville, Ky., for furnishing electro-centrifugal unit for booster station, to BROWNELL CO., Dayton, Ohio, for furnishing tubular boiler; and to ROTH MFG. CO., Indianapolis, Ind., furnishing Columbus deep well impeller pumps. J. B. Marvin of Frankfort is Engr.

MARION, IND.—The Board of Public Works has awarded contract to WILLIAM YATES for laying water mains in Jeffras Ave. from Western to Park Aves., at 14¾ cts. per lin. ft.

SOUTH BEND, IND.—Plans for rebuilding the water system are being considered. A substation, equipped with electrically driven pumps will be erected.

DETROIT, MICH.—The Board of Water Commissioners, B. F. Guiney, Secy., will receive bids until Oct. 11 for approximately 6,323 tons of c.-i. pipe, from 6-in. to 42-in. diameter.

GRAND RAPIDS, MICH.—Bids have been opened by the Board of Public Works for basins and substructures of buildings for the filtration plant. Contract has been awarded to A. H. PRANGE, at $123,842. Other bidders follow: J. P. Rusche, $147,227; Carpenter & Anderson, $159,126; The Kaps-Brehm Co., $151,348; American Engineering & Construction Co., $140,069; A. Bently & Sons Co., $135,239; Engineer's estimate, $135,221. Hering & Fuller are Engrs., 170 Broadway, New York.

Bids will be received by the Board of Public Works until 8 p. m., Oct. 6, for furnishing c.-i. water pipe specials. Samuel A. Freshney is Secy. and Gen. Mgr.

McLEANSBORO, ILL.—Plans and specifications for a reservoir and water works system for this city to cost not more than $16,000 were submitted on Sept. 24, to the City Council by G. C. Harvey of Mount Carmel, Ill.

SPRINGFIELD, ILL.—Bids will be received by Frank R. Simmons, City Controller, until 10 a. m., Oct. 12, for the construction of a crib and 24-in. iron pipe intake leading from the river to the well at the pumping station.

MILWAUKEE, WIS.—Bids will be received until Oct. 6 for erecting a pump house and laundry for the municipal tubercular hospital. Separate bids to be taken on mason work, cistern work, lathing and plastering, cut stone, carpentering, galvanized iron, slate and tin, painting and glazing, plumbing and the power plant.

RIPPEY, IOWA.—Bonds for $7,000 for the construction of water-works have been sold.

MARSHALLTOWN, IOWA.—P. V. CLARKE Clinton, has been awarded contract by the Chicago & Northwestern Ry. Co., to rebuild the company's water plant at Marshalltown. The old mains will be taken up and new and larger ones laid.

DAVENPORT, IOWA.—See items under Sewers.

BEAVER CREEK, MINN.—The Great Northern Power Co. will construct a dam and storage reservoir near here. C. A. Duncan is Pres., Duluth.

MARBLE, MINN.—The contract for constructing a water-works and sewer system, bids opened on Sept. 12, has been awarded to H. V. BARTLETT CO., Virginia, Minn., at $24,500.

FARMINGTON, MINN.—We are officially advised that contract has been awarded to the DES MOINES BRIDGE & IRON CO., Des Moines, Iowa, for the construction of the new gravity water-works system here at $11,885. L. A. Whittier is Recdr.

MULVANE, KAN.—The J. S. Worley Co., Kansas City, Mo., is preparing plans for water-works. Estimated cost, $30,000.

CHANUTE, KAN.—The water system here will be improved and extended. Bonds for $75,000 were voted on Sept. 17.

SALINA, KAN.—The Council has adopted ordinances and resolutions providing for the extension of 6-in. mains in various streets.

MILFORD, NEB.—Bids will be received by Elisha Courtright, Village Clk., until 8.30 p. m., Oct. 10, for the construction of a system of water-works, comprising building and machinery foundations, well, tower and tank, c.-i. pipe, special castings, valves, hydrants, laying water mains, etc. Estimated cost, $13,000.

DECATUR, NEB.—Bids will be received by George F. Morley, Village Clk., until Oct. 10 for the construction of water-works. Plans by Des Moines Bridge & Iron Co., of Des Moines, Iowa.

FORBES, N. DAK.—Bids will be received by J. H. Wurst, Village Clk., until 10 a. m., Oct. 8, for furnishing c.-i. water pipe, hydrants, etc.

LEWISTON, MONT.—The water works here will probably be rebuilt, wooden main to be replaced with iron pipe.

HARLOWTON, MONT.—Bonds have been sold for the proposed water-works improvement. Estimated cost, $15,000. S. K. Campbell is Town Clk.

KANSAS CITY, MO.—Bids will be received Oct. 13 by the city for a concrete intake pier for the Quindaro pumping station.

BLYTHEVILLE, ARK.—Bids are asked until Oct. 15 by the city for constructing water-works. T. W. Davis is Mayor.

FORT SAM HOUSTON, TEX.—Bids will be received until Oct. 20 by P. W. Guiney, Constr. Q. M., U. S. A., Fort Sam Houston, for the construction of a 300,000-gallon steel tank and trestle and the construction of an extension to the water distributing system at the post.

SHINER, TEX.—The city has voted $8,000 of bonds for the extension of water-works.

TAYLOR, TEX.—Preliminary surveys have been completed for the water reservoir tank for the Taylor Water Co. H. A. Bittick is Mgr.

DAWSON, TEX.—The city has voted $8,000 of bonds for the construction of water-works.

CHAPIN, TEX.—See item under Miscellaneous Contracts: Drainage.

LUBBOCK, TEX.—The city is considering the construction of water-works and a sewer system. Estimated cost, $80,000. E. L. Dalton is Engr., Dallas.

LUEDERS, TEX.—The Lueders Water Supply Co., lately incorporated with $30,000 capital, will construct a dam across Cottonwood Creek where it empties into Clear Fork of Brazos River, giving supply of about 700,000,000 gallons of water for Lueders and nearby cities; C. H. King is Pres.

ENID, OKLA.—Plans have been ordered by the city for enlarging the water system.

MANNSVILLE, OKLA.—Bids will be received by the Board of City Trustees until Oct. 10, for the construction of water-works. L. J. Myers is City Engr.

BRITTON, OKLA.—The citizens have voted to issue $35,000 of bonds for water-works.

DURANT, OKLA.—See item under Light and Power Plants.

HAVENER, OKLA.—Contract has been awarded to L. Y. McFARLAND of Bartlesville, Okla., for the construction of water-works here. Estimated cost, $50,000.

VILLAGROVE, COLO.—We are officially advised that the survey for the Kerber Creek reservoir, six miles above here, has been completed and accepted by the State Engineer. Plans for the dam, to cost $53,000, have not yet been made. Address J. H. Parsons, Villagrove. Noted on Sept. 22.

ALBUQUERQUE, N. MEX.—Vernon L. Sullivan, Territorial Engr., it is reported, has approved the application of the Bocas Irrigation Co. of Albuquerque, for the water of Abo Canon, in Manzano Mountains, for the reclamation of 20,000 acres, just outside of Belen grant in Rio Grande Valley. The works will consist of two dams creating two reservoirs holding 20,000 acre ft. One dam will be 85 ft. high, 670 ft. long on top and 150 ft. at bottom, of rubble masonry, reinforced concrete and steel face; the other will be 94 × 487.8 × 160 ft. of reinforced concrete.

LAS VEGAS, N. MEX.—We are officially advised that contract for an arched concrete dam for the proposed reservoir of the Aqua-Pura Co., Las Vegas, has been awarded to M. M. SUNDT, Las Vegas. The dam is designed with an ultimate height of 95 ft., but it will only be erected to a height of 50 ft. at present. It will be of either reinforced concrete or of rubble masonry, 15½ ft. wide at the base and with the concrete dam 4 ft. wide at top, and the masonry dam 6-ft. wide at top. It will be built with a radius of 250 ft., the vertical face of the dam being upstream. The total cost is estimated at about $40,060. It will furnish storage space for approximately 60,000,000 gallons. Metcalf & Eddy, 14 Beacon St., Boston, are Engrs.

TACOMA, WASH.—The City Council has adopted resolutions providing for 14, 12, 8 and 6-in. mains in various streets. Estimated cost, $12,776.

YACOLT, WASH.—The citizens have voted to issue $10,223 of bonds for the construction of a municipal gravity water system.

*NORTH YAKIMA, WASH.—Bids are asked by the Project Engineer, U. S. Reclamation Service, North Yakima, until 2 p. m., Oct. 29, for the construction of about 40 miles of laterals, Tieton unit of Yakima project, near here, involving about 230,000 cu. yds. of excavation; also for 73 miles of sub-laterals, same project. Charles H. Swigart is Superv. Engr.

SEATTLE, WASH.—See item under Streets and Roads.

GEORGETOWN, CAL.—See item under Light and Power Plants.

OAKLAND, CAL.—Bids will be received by the Supervisors, for the construction of a water plant in Murry road District.

LOS ANGELES, CAL.—The Southern California Edison Co. of Los Angeles, has obtained through a subsidiary company, the Chuckawalla Power Company's rights on the Colorado River. The country to be reclaimed is tributary to Parker, Ariz. It is estimated that 500,000 acres can be ultimately reclaimed, of which 250,000 acres are on the California side of the Colorado River, in the Chuckawalla Valley. The company proposes to construct a dam of solid masonry 60 ft. high and 900 ft. long across the Colorado River, six miles above Parker.

SAN FRANCISCO, CAL.—The Board of Public Works on Sept. 12 awarded to BOSTER & VOGT the contract for hauling and laying pipe for auxiliary water system in the district bounded by Van Ness Ave., Market St., Powell St. and the bay at $102,809. Marsden Manson is City Engr.

PRINCETON, CAL.—The new owners of the Col. L. F. Moulton Estate will conduct the affairs of the company under the name of the Moulton Irrigated Lands Co. A 4-mile levee will be built by the new owners on an east and west line parallel with the electric power pole line. The old ditch system constructed under the plans of Colonel Moulton will be repaired and strengthened and utilized both in irrigating and draining the 18,000 acres of the estate.

YERINGTON, NEV.—The Council has decided to erect a tank 100 ft. high, with capacity of 100,000 gallons.

SALT LAKE CITY, UTAH.—The city proposes to extend the water mains on the northeast bench about 3,700 ft. Estimated cost $15,000.

PARK CITY, UTAH.—Bonds for $50,000 have been sold for the construction of water-works.

WELLAND, ONT.—On Sept. 19, the by-law to spend $52,000 for a water-works system was carried.

SANTA ROSALIA, MEX.—See item under Light and Power Plants.

SEWERS.

(*Denotes that this work is advertised in Engineering News.)

BOSTON, MASS.—Bids will be received until Oct. 11 for constructing sewers in Martin Leslie and Wildwood Sts. Louis K. Rourke is Supt. of Sts.

BOSTON, MASS.—Contract has been awarded GEORGE J. REGAN, 92 Stoughton St., Boston, at $3,134, for constructing sewers in Quint Ave. and Atkins St. Louis K. Rourke is Supt. of Sts.

BOSTON, MASS.—Contract has been awarded by L. K. Rourke, Supt. of Sts. to J. C. COLEMAN & SONS, at $3,708 for constructing sewers in Rockdale and Rosewood Sts.

TROY, N. Y.—Bids will be received by the Board of Contract and Supply until 11 a. m., Oct. 7, for constructing a sewer in Elm Grove Ave., from Pine Wood Ave. to Collins Ave.; also for grading and curbing the same. James M. Riley is Secretary to the Board.

*WESTFIELD, N. Y.—Bids will be received by the Village Trustees until 8 p. m., Oct. 28, for the following: 35,194 lin. ft. of 8-in. pipe; 9,764 ft. 10-in.; 5,377 ft. 12-in.; 2,615 ft. 18-in.; 1,460 ft. 20-in.; 3,108 ft. 24-in. pipe; 143 manholes; 23 flush tanks; one disposal plant. J. A. Riley, is Village Clk.

BUFFALO, N. Y.—The Board of Aldermen have approved the recommendations of Commissioner of Public Works Francis G. Ward, for the enlargement of the trunk sewer in Seneca St. from Hydraulic St. to Hamburg St.; also lateral sewers in Emslie, Lovejoy, Peckham and other streets.

NEW YORK, N. Y.—Bids will be received by Alfred E. Steers, Pres. of the Borough of Brooklyn, until 11 a. m., Oct. 19, for constructing sewers in Church Ave., from Gravesend Ave. to 14th Ave. and in 14th Ave., from Church Ave. to 37th St. It will include 1,000 ft. 48-in. brick sewer; 288 ft. 12-in. pipe; 1,600 ft. 6-in. pipe; 11 manholes; 20,000 ft. B. M. of sheeting and 9,500 ft. B. M. foundation planking. Estimated cost, $10,538.

Also for constructing a sewer in Church Ave., from 14th Ave. to 36th St. and an outlet sewer in 36th St., from Church Ave. to 14th Ave. It will consist of 190 ft. 30-in. brick sewer; 150 ft. 18-in. pipe; 375 ft. 12-in.; 260 ft. 6-in., and 2,000 ft. B. M. sheeting and bracing. Estimated cost, $2,600.

CHATHAM, N. J.—Contract for the construction of a sewage disposal plant has been awarded J. W. HELLER of Newark, N. J., at $58,696, by the joint city councils of Chatham and Madison.

ATLANTIC CITY, N. J.—The Jersey Paving Corporation of Newark, N. J., was the lowest bidder for the construction of a drainage conduit from Gardner basin to Baltic Ave. All bids were referred to Estel G. Righmire, City Engr. for tabulation. Estimated cost, $900,000.

*ASBURY PARK, N. J.—Bids will be received by the Common Council until 8 p. m. Oct. 10 for the construction of 50 manholes and 29 flush-tanks. William C. Burroughs is City Clerk.

BEAVER FALLS, PA.—Bids will be received by the Town Council until 8 p. m., Oct. 25, for complete surveys, plans and specifications for a sewer system and disposal plant. W. F. Rayle is Secy. to the Council.

HARRISBURG, PA.—Bids are being asked for the construction of sewers in 19th and Market Sts.; also in 17th, Boas and Herr Sts. M. B. Cowden is City Engr.

WESTERNPORT, MD.—See item under Water-Supply-Irrigation.

*RICHMOND, VA.—Bids were received on Sept. 15 for constructing the following sewers (a) Virginia Ave. from the intersection of Hampton St. and Colorado Ave. to the James River; (b) Dooley Ravine from the intersection of Hampton St. and Colorado Ave. to the James River; (c) Leigh St. from 34th St. to the National Cemetery Road; (d) Bloody Run Ravine from 34th and Franklin St. to Williamsburg Ave.: (a) The Metropolitan Contracting Co., Boston, Mass., for concrete and flume, $124,655; for brick and flume, $128,593; I. J. Smith & Co., Richmond, Va., $107,859, and $104,502; STAMPER RAGLAND & CO. (recommended for award), Richmond, Va., $86,046 and $80,489; Winston & Co., Richmond, Va., $184,223 and $170,222; A. W. Maynard, Richmond, Va., $123,869 and $116,089. Whiting, Middleton Co., Baltimore, Md., $114,530 and $111,331; Thos. A. Barry, Richmond, Va., $136,746 and $134,626. (b) Winston & Co., Richmond, Va., concrete and flume, $189,471, concrete by pass, $194,557, brick and flume, $137,112, brick and by pass, $142,198; I. J. Smith & Co., Richmond, Va., $143,242, $153,603, $131,782, and $142,143; Metropolitan Contracting Co., Boston, Mass., $160,755, $176,775, $172,430 and $188,431; Thos. A. Barry, Richmond, Va., $138,667, $143,567, $130,539 and $135,439. The Street Committee recommended the City Council that all bids for this sewer be rejected. (c) A. W. Maynard, Richmond, Va., $17,935; I. J. Smith & Co., Richmond, Va., $18,546; F. J. McGuire, Norfolk, Va., $16,372; J. B. CHEWNING, Richmond, Va. (recommended for award), $14,475; Warren F. Brenizer & Co., $18,980; W. E. Flecther, Richmond, Va., $17,830; H. L. Driscoll, Richmond, Va., $13,536 (not considered); Cheatwood & Clay, Richmond, Va., $16,460; Javi Perkins Construction Co., Richmond, Va., $20,035. (d) W. F. Brenizer & Co., $9,654; J. C. Weinbrum & Bros., Richmond, Va., $8,020; H. L. DRISCOLL & CO., Richmond, Va. (recommended for award), $7,536; Cheatwood & Clay, Richmond, Va., $8,311; Charles E. Boling is City Engr.

WHEELING, W. VA.—The contract for the laying of the storm, water and sanitary sewers from Market St. and Alley 18 to Alley B, has been awarded to RICHARD BECKER by the Board of Control, at $1.30 per ft. The WHEELING WALL PLASTER CO. was awarded the contract for furnishing the material. C. C. Smith is City Engr.

GREENVILLE, S. C.—See item under Light and Power Plants.

*ATLANTA, GA.—Bids will be received by the Mayor until noon Nov. 1, for the construction of the Proctor creek sewage disposal plant. Plans and specifications are on file in the office of R. M. Clayton, City Engr.

*LOUISVILLE, KY.—Bids will be received until noon Oct. 21 for the construction of section B, Frankfort Ave. sewer contract No. 74, as follows: 1,870 ft. of vitrified pipe drain, ranging in size from 12-in. to 24-in. and 1,870 ft. of 8-in. sewer, about 1,870 ft. of earth excavation, depth of cut 9 to 11 ft.; about 350 cu. yds. of rock excavation and 15 cu. yds. of concrete masonry. John Chambers is City Engr.

WINCHESTER, KY.—Contract has been awarded E. T. LEWIS & CO. at $60,000 for the construction of the city sewer system.

DELAWARE, OHIO.—See item under Streets and Roads.

CLEVELAND, OHIO.—Bids will be received by the County Comrs. until 11 a. m., Oct. 15 for constructing sewers in North Woodland Road. Plans and specifications are on file in the office of Frank R. Lander, County Surveyor. John F. Goldenbogen is Clerk of Comn.

COLUMBUS, OHIO.—Bids will be received at the office of the director of Public Service, until Oct. 14, for the construction of a sewer in Starling St. from Town St. to Rush Alley and in Rush Alley west to a point in Sullivants Western Addition.

DELAWARE, OHIO.—THE SHERMAN-RIGGS CO., engineers, of Toledo, Ohio, have been awarded the contract for preparing plans and specifications for the new sewage disposal plant to be built by the city.

YOUNGSTOWN, OHIO.—Bids will be received by the Director of Public Service until noon, Oct. 7, for the construction of a sewer in Starr St., between Willow and Albert Sts. Plans and specifications are on file in the office of Frank Lillie, City Engr.

TOLEDO, OHIO.—Bids will be received until noon, Oct. 17, by the Director of Public Service, for constructing sewers in White St. between Albert and Freedom St., also in the alley between Albert and Vinal St. and in the alley south of Vinol St. Fred Shane is Secretary.

MUNCIE, IND.—Bids are being asked for the construction of two city sewers. Plans and specifications are on file in the office of Benjamin Deardorf, City Engr.

EVANSVILLE, IND.—Bids will be received by the Board of Public Works until 10 a. m., Oct. 8, for constructing a sewer in Sixth Ave., from Cherry St. to alley in block 41; also in alley in block 49 and in Oregon St., between Heinlein and Third Aves. Jas. D. Saunders is City Engr.

MILWAUKEE, MICH.—Contract has been awarded L. W. SCHRUTH of Fargo, North Dak., at $47,000 for the construction of a sewer system. C. R. Poetsch is City Engr.

PRINCETON, ILL.—Contract has been awarded KEYS AND McMAMARA, La Salle, Ill., for the construction of 3,476 ft. of sewer pipe together with manholes and other appurtenances. W. S. Shields is City Engr.

ELGIN, ILL.—Plans are being prepared for the construction of a sewer system which will include the entire village. Estimated cost, $15,000.

PAXTON, ILL.—Bids will be received by the Comrs. of Big 4 Drainage District until 1 p. m., Oct. 14, for repairing 7,700 ft. ditches of Sub District No. 8; also for the cleaning the open ditches of the same district. Cloud & Thompson, Paxton, Ill., are the Engrs.

GLEN ELLYN, ILL.—An ordinance has been passed for the construction of a sewerage system and sewage purification plant, the latter including four concrete tanks, four filter beds and a settling tank. The tanks will be from 20 × 26 ft. to 25 × 72 ft. and the filter beds will be 33 × 66 ft. The plans were prepared by the Aetna Engineering Bureau, of Chicago. Mr. Byron Williams is Pres. Board of Local Improvement. The estimated cost is $156,000.

ROCKORD, ILL.—Bids will be received by Mark Jardine, Pres. Bd. of Local Impvts., until 11 a. m., Oct. 8, for constructing sewers in portions of Central Ave., Peach St. and Independence Ave. Plans and specifications are on file in the office of S. B. Hand, City Engr.

BELOIT, WIS.—Plans are being prepared by W. T. Kirchoffer, City Engr. of Madison, Wis., for a sewer system to be constructed in a new district north of the present districts A and B.

DUBUQUE, IA.—The following contracts have been awarded by the City Council: Constructing a sanitary sewer in Grandview Ave. and South Dodge St. to W. J. HASSETT, and the construction of the Bee Branch sewer at 18th St. to the O'FARRELL CONTRACTING CO.

CHARLES CITY, IA.—Contract has been awarded by the City Council to R. C. DELA HUNT, of Cedar Rapids, Ia., for the construction of city sewers.

DAVENPORT, IA.—The contract for the construction of sewers and water mains from 15th to 22nd Aves. and from First to Seventh Aves. has been awarded C. A. BERGLUND, of Moline, Ill., at $13,785 for sewers and $9,984 for water mains. Other bidders were Keys and MacMamara, La Salle, Ill., $19,319 and $10,711; F. E. Kaminisky, Watertown, Wis., $16,196 and $8,500; P. J. Ryan, St. Paul, Minn., $16,629 and $9,501; E. R. Harding, Racine, Wis., $14,369 and $10,000. Clark G. Anderson is City Engr.

MARBLE, MINN.—See item under Water Supply-Irrigaton.

*LAWRENCE, KAN.—Bids will be received by W. D. Brooks, City Clerk, until 5 p. m., Oct. 17, for constructing a main district sanitary sewer in the southern [...] of the city. It will consist of 2850 f[...] 12-in. sewer pipe; 3850 ft. 10 in. [...]r with manholes and appurtenances. [...]Holland Wheeler is City Engr.

GRAND ISLAND, NEB.—The [...]e has appropriated $10,000 toward the [...]uction of a sewer 1,000 ft. of which will [...] state land. The city will add $8,000 [...] sum as their share of the expense. [...] will be asked soon.

NEOSHO, MO.—Bids will be [...]ed by William Warden, City Clerk, unt[il ...] p. m., Nov. 1 for constructing a sewer [...]m in district No. 1. Plans and specifi[cations] are on file in the office of John M. [...]rwood, City Engr.

EL PASO, TEX.—Contracts for [the] construction of sewers in section 1 a[nd ...] have been awarded to SORENSON & [...]GAN, at $26,980, and to W. E. ANDE[RSO]N, at $36,000, for the construction of [secti]on 2. F. H. Todd is City Engr.

LUBBOCK, TEX.—See item und[er] Water Supply-Irrigation.

GUTHRIE, OKLA.—Contract h[as] been awarded W. F. POWERS, at $9,0[...] for the construction of the East Side Se[wer]. The bid of Smith & White which was $[...] lower was rejected as unsatisfactory. E. B. [...]locker is City Engr.

SPOKANE, WASH.—Contract has been awarded JAMES KENNEDY of Fargo, North Dak., at $500,000 for the construction of the Fifth ward trunk sewer. The sewer traverses the north side from east to west discharging into the Spokane River near Fort Wright. It will be of concrete and its size will range from four to 12 ft. in diameter. J. C. Ralston is City Engr.

PORTLAND, ORE.—Plans have been filed for the Sullivan Gulch main trunk sewer. It will be of reinforced concrete and 8½ ft. in diameter, and 8,482 ft. in length. Estimated cost, $269,489.

Plans were also filed for the Alameda Park sewer system. It will be a 2 ft. by 3 ft. egg-shaped concrete and pipe sewer. Estimated cost, $85,000. J. W. Morris is City Engr.

OAKLAND, CAL.—Contract for the construction of a stone sewer in San Pablo Ave. from 59th to 67th St. has been awarded the CONTRA COSTA CONSTRUCTION Co. at $15,485. Other bidders were: Waldie Construction Co., $16,835; Michael Murphy, $16,673; Scott & Farley, $17,270; Michael Heafey, $15,618; H. Gould, $16,624; Esterly Construction Co., $20,000. Frederick C. Turner is City Engr.

REDWOOD, CAL.—Contract has been awarded McGarvey, Hess and Freiss for laying sewer pipe in Spruce St. at 37.5 cts. per lin. ft. and $27.50 per manhole.

GRASS VALLEY, CAL.—Bids will be received by W. D. Harris, City Clerk, until 7.30 p. m., Oct. 7, for a sewer system; also for laying 844 ft. of 6-in. pipe in Carpenter St.

GARBAGE DISPOSAL.

NEW YORK, N. Y.—Bids are asked until noon, Oct. 14, by William H. Edwards, Comr. St. Cleaning, for furnishing all the labor and materials required for the construction of a dumping board on the pier at the foot of West 97th St., North River; and for furnishing all the labor and materials required for the construction of a dumping board on the pier at the foot of West 134th St., North River.

NEW ALBANY, IND.—Bids will be received by the Board of Public Works until Oct. 28 for the removal of garbage.

SAN JOSE, CAL.—Bids will be received until 5 p. m., Oct. 10, for the construction of a refuse incineration plant. R. E. Walter is City Clk.

STREETS AND ROADS.

(*Denotes that this work is advertised in Engineering News.)

BOSTON, MASS.—The contract for paving Kingston St., with asphalt, was awarded on Sept. 27, to the BARBER ASPHALT PAVING CO., of Cambridge, at $3,129. Other bidders were: Warren Bros. Co., 59 Temple Pl., Boston, at $3,339. Jones & Meehan, 10 Tremont St., Boston, at $3,699.

Bids will be received on Oct. 7, by Louis K. Rourke, Supt. Streets, for macadamizing Morton St.

Bids are asked by Louis K. Rourke, Supt. Streets, on Oct. 10, for macadam on Old Colony Ave.

The following contracts were awarded on Sept. 27, by Louis K. Rourke, for macadam road and artificial stone sidewalks, in West Park St. and Westcott Sts: JAMES DOHERTY, 133 Calumet St., Boston, (both contracts), at approximately $5,000.

CHARLTON, MASS.—The following bids were received by the Massachusetts Highway Comm., Harold Parker, Chn., on Sept. 27, for constructing a road in Charlton: LANE CONSTRUCTION CO., Meriden, Conn., $8,699 (awarded contract); T. J. M[...]ne, West Newton, Mass., $9,035; L. C. Core[...], Boston, $9,069; M. J. Camarco, Lee, Mass., $9,298; Worcester Broken Stone Co., $9,[...]2; A. de Stefano, Boston, $9,343; R. F. H[...]son, Melrose, Mass., $9,446; G. J. Celli[...], Springfield, $9,735; Tony Leo, Thompson, Conn., $9,933; F. E. Ellis, Melrose, $10,170; De Pollito and De Pietro, Boston, $10,222.

LAWRENCE, MASS.—The M. C. MAHONEY ESTATE of this city has been awarded the contract to build the highway on the North bank of the Merrimack river from the Dracut line to Lowell St. Methuen, at $6,836.

There were six bidders, the second lowest was William J. Carroll of this city, whose bid was $7,715.

WATERTOWN, MASS.—The following bids have been received by the Metropolitan Park Commissioners, William B. de Las Casas, Chn., for extending the Charles River Road:

JAMES H. FANNON, Somerville, (awarded contr... $8,563; Rowe Contracting Co., Brigh... $8,873; Martin & Condon, Watertown ...130; M. Maloy & Son, Waltham, $9,524 ... Stuart & Son, Co., Newton, $10,021; ... S. and A. D. Gore, Boston, $10,556; ...es Driscoll & Son, Brookline, $10,765.

WES...N, MASS.—Bids will be received until 10 ...m., Oct. 8, by the Board of County Commi...oners, Court-house, East Cambridge. ...Gould, Charles H. Richardson and Levi ... Williams, are Comrs., for building ... road ... Weston.

HARTFORD, CONN.—The contracts for state ... work, bids for which were opened at the ...ice of the State Highway Commissioners ...Sept. 23, have been awarded as follows: ...wn of Chester, 4,618 lin. ft. graded-telford ...d, including two 18-in. three 15-in. and ... 24-in. tile culverts and one reinforced ...crete arch culvert, to the LANE CONS...CTION CORP., Meriden, Conn., $6,90... for the entire grading, with 60 cts. per lin. ft. extra for telford and 90 cts. per lin. ft. for rubble drain.

Town of Cromwell, 6,000 lin ft. gravel-telford road, including one 24-in. and one 18-in. tile culvert and one reinforced concrete arch culvert, to JOSEPH D'ALOIA, 1 North Sq., Boston, Mass., 97 cts. per lin. ft. for gravel, $...15 lin. ft. for telford, $1 per lin. ft. for rubble drain.

Town of Easton, 7,635 lin. ft. graded-telford road, including three 15-in. and six 18-in. tile culverts, to the B. D. PIERCE, JR. CO., Bridgeport, Conn., $15,600, for the entire grading, with 65 cts. per lin. ft. extra for telford and 70 cts. per lin. ft. for rubble drain.

Town of Woodbridge, 2,200 lin. ft. gravel-telford road, including three 15-in. tile culverts, to E. G. PARDEE, Bethany, Conn., $2.53 per lin. ft. for gravel, 65 cts. per lin. ft. for telford, $1 per lin. ft. for rubble drain, 90 cts. per sq. yd. for cobble gutters.

Town of Manchester, 8,508 lin. ft. gravel-telford road, including seven 15-in. and one 18-in. tile pipe culverts, to the LANE CONSTRUCTION CORP., Meriden, $1.68 per lin. ft. for gravel, $2.18 per lin. ft. for telford, 90 cts. per lin. ft. for rubble drain and 70 cts. per sq. yd. for cobble gutters.

Town of Warren, 3,341 lin. ft. graded-telford road, to the LANE CONSTRUCTION CORP., Meriden, $8,520 for the entire grading, and 45 cts. per lin. ft. extra for telford, and 90 cts. per lin. ft. for rubble drain.

HARTFORD, CONN.—Contracts for the construction of state road work, bids for which were received at the office of the State Highway Commissioners, on Sept. 30, have been awarded as follows:

City of Hartford, 1,335 lin. ft. macadam-telford road, 19 ft. travel way and 4-ft. cobble gutters to THOMAS KEARNEY, Meriden, Conn., 95 cts. per sq. yd. for macadam, $1.70 per sq. yd. for telford, 85 cts. per lin. ft. for rubble drain, $1 per sq. yd. for cobble gutters. Sternberg & Cadwell, West Hartford, Conn., the only other bidder, submitted these figures: $2.06 per lin. ft. for macadam, $3.26 per lin. ft. for telford, $1 per lin. ft. for rubble drain, 75 cts. per sq. yd. for cobble gutters.

Town of Farmington, 2,011 lin. ft. macadam-telford road, including one 12-in. tile pipe culvert, 16-ft. travel way, 4-ft. shoulders and gutters, to O. T. BENEDICT, Pittsfield, Mass., $2.39 per lin. for macadam, $2.99 for telford, 80 cts. per lin. ft. for rubble drain. Sternberg & Cadwell, West Hartford, the only other bidder, submitted these figures: Macadam, $2.53, telford, $3.25, rubble drain, $1.25.

Town of Union, First Section, 2,385 lin. ft. graded-telford road on the Union-Stafford Springs Turnpike, including one 12-in. and one 18-in. tile culverts, to AMOS D. BRIDGE'S SONS CO., INC., Hazardville, Conn., $7,997 for the entire grading, 60 cts. per lin. ft. extra for telford, $1 per lin. ft. for rubble drain. Other bidders were: Tony Leo, Thompson, Conn., $8,300, 73 cts., $1; Ahearn Bros., Norwich, Conn., $12,500, 55 cts., 95 cts.; William Maloney, West Hartford, Conn., $9,078, 70 cts., $1; A. Brazos & Sons, Middletown, Conn., $13,500, 40 cts., 80 cts.; Sternberg & Cadwell West Hartford, Conn. $16,623.; 63 cts., $1. Second Section, 2,873 lin. ft. graded-telford road, 14-ft. travelway, including one 15-in. and three 18-in. tile culverts, to AMOS D. BRIDGE'S SONS CO., INC., Hazardville, $5,397 for the entire grading, 60 cts, per lin. ft. extra for telford, $1 per lin. ft. for rubble drain. Other bidders were: Tony Leo, Thompson, Conn., $6,-700, 75 cts. $1; William Maloney, West Hartford, Conn., $5,832, 70 cts, $1; Ahearn Bros. Norwich, Conn., $6,534, 60 cts., $1; A. Brazos & Sons, Middletown, Conn., $7,900, 40 cts., 80 cts.

Town of Killingly, 6,075 lin. ft. macadam-telford road on the Elmville-Dayville Turnpike, 14 ft. travel way and 5-ft. shoulders and gutters, including one 15-in. and one 24-in. tile culverts, to the TOWN OF KILLINGLY, John A. Gilbert, First Selectman, $1.35 per lin. ft. for macadam, $1.95 for telford, 70 cts. for rubble drain. Other bidders were: A. Brazos & Sons, Middletown, Conn., $1,70, $2.10, 80cts; A. D. Bridge's Sons Co., Inc., Hazardville, Conn., $1.83, $2.43, $1; Lane Construction Corp., Meriden, Conn., $1.45, $1.85, $1. Second Section, 6,780 lin. ft. graded-telford road, 14-ft. travel way and 4-ft. shoulder and gutters, including one 15-in. and one 24-in. tile culverts, to the TOWN OF KILLINGLY, John A. Gilbert, First Selectman, $4,068 for the entire grading, 60 cts. per lin. ft. extra for telford, 70 cts. per lin. ft. for rubble drain. Other bidders were: Ahern Bros., Norwich Conn., $5,000, 60 cts., $1; A. Brazos & Sons, Middletown, Conn., $6,440, 40 cts., 80 cts.; A. D. Bridge's Sons Co. Inc., Hazardville, Conn., $8,563, 60 cts., $1; Lane Construction Corp., Meriden, Conn., $4,900, 56 cts., $1.

The following bids were also received, but the contracts were not awarded:

Town of Rocky Hill, 6,948 lin. ft. graded or macadam road, including two 12-in. tile culverts and one reinforced concrete arch culvert, Antonio Vito, Thompson, Conn., $11,-000 for the entire grading, or $2.91 per lin. ft. for macadam; William Maloney, West Hartford, Conn., $6,480 for grading, $1.10 per lin. ft. for macadam; Pierson Engineering & Construction Co., Bristol, Conn., $5,-843 for grading, $2.30 per lin. ft. for macadam; A. E. Douglas, Glastonbury, Conn., $8,500 for grading, $2.95 for macadam; B. D. Pierce, Jr. Co., Bridgeport, Conn., $10,434 for grading, $2.38 for macadam; F. Arrigoni & Bro., Middletown, Conn., $6,777 for grading, $2.09 for macadam; A. Brazos & Sons, Middletown, Conn., $7,643 for grading, $1.95 for macadam.

Town of Vernon, 7,280 lin. ft. macadam-telford road, including four 15-in. one 18-in. and one 15-in. tile culverts, Lane Construction Corp. Meriden, Conn., $1.71 for macadam, $2.15 for telford, $1 for rubble drain; O. T. Benedict, Pittsfield, Mass., $2.13, $2.73, 80 cts; A. Brazos & Sons., Middletown, Conn., $1.82, $2.07, 80 cts.; A. D. Bridge's Sons Co., Inc., Hazardville, Conn., $1.77, $2.47, $1; Thomas Kearney, Meriden, Conn., $1.78 per lin. ft. for macadam.

HARTFORD, CONN.—Bids for the construction of state road work will be received at the office of the State Highway Commissioner, until 2 p. m., Oct. 13, as follows:

Town of Newington, 3,737 lin. ft. macadam-telford road, including one reinforced-concrete arch culvert. Plans and specifications with Jedediah Deming, First Selectman, Newington, Conn.

Town of Weston, 2,000 lin. ft. gravel-telford road, including six culverts.

Town of Redding, 5,575 lin. ft. graded-telford road, including six tile culverts. Plans and specifications at Town Clerk's office, Redding.

Town of Stamford, 2,300 lin. ft. macadam-telford road, including one tile culvert. Plans and specifications at Selectmen's office, Stamford.

Town of Voluntown, one section macadam road, 1,938 lin. ft., including one culvert; also 2,610 lin. ft. gravel road. Plans and specifications at Briggs Mfg. Co., Voluntown.

Town of Mansfield, 6,475 lin. ft. gravel-telford road, including 21 tile culverts. Plans and specifications with W. F. Storrs, First Selectman, Mansfield Center.

Town of East Granby, two sections gravel-telford road, aggregating 5,970 lin. ft., including seven tile culverts. Plans and specifications with W. W. Viets, First Selectman, East Granby.

WATERFORD, CONN.—Bids will be received by the Board of Selectmen, A. H. Lamphere, First Selectman, until 3 p. m., Oct. 8, for macadamizing a section of road. Plans and specifications are with Chandler & Palmer, Engrs., New London.

NEW YORK, N. Y.—Bids will be received by the Department of Parks, until 3 p. m., Oct. 13, for furnishing all the labor and materials for reconstructing and surfacing with asphaltic concrete the Bronx and Pelham Parkway, from the Southern Boulevard to the Butler St. Road, in the Borough of the Bronx, in the City of New York. Charles B. Stover is Pres. and Michael J. Kennedy is Comr. of Parks.

Bids will be received until 11 a. m., Oct. 15, by Cyrus C. Miller, Pres., Boro. of Bronx for paving with asphalt blocks on a concrete foundation, bituminous macadam and for laying cement flagging on various streets in the Boro. of Bronx.

The following bids were received on Sept. 27, by Cyrus C. Miller, Pres. Boro. of Bronx, for completing the contract which was executed by W. F. Murray on April 8, 1908, and was declared abandoned on May 6, 1910, for regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks building approaches, placing fences, manholes and steel rods in place in West Farms Road from Morris Park Ave. to the intersection of Westchester Ave. and former Main St. in the old village of Westchester: Garvey Bros., 1911 White Plains Road, $64,967; B. C. Murray, $42,890; McDonald & Barry, Kingsbridge Ave. and 230th St., $61,873; J. B. Malatesta, 3169 Jerome Ave., $61,575; W. H. Grainer, $49,659; J. J. Shea, $47,434.

BUFFALO, N. Y.—The GERMAN ROCK ASPHALT AND CONCRETE CO., LTD., has been awarded contract by Francis G. Ward, Comr. of Public Works, with German Rock Asphalt between Washington and Michigan Sts. at $9,220; and FRANK V. E. BARDAL, 401 D. S. Morgan Bldg., the contract for repaving Pine St., 32 ft. wide, with round edge shale brick on concrete base, between Cypress and Sycamore Sts., at $4,900.

NEW YORK, N. Y.—Bids will be received by George McAneny, Pres. Boro. of Manhattan, until 2 p. m., Oct. 17, for regulating and repaving with sheet asphalt pavement on a concrete foundation, various streets in the Boro. of Manhattan.

Bids are asked until 11 a. m., Oct. 19, by Alfred E. Steers, Pres. Boro. of Brooklyn, for regulating and repaving with asphalt pavement on a concrete foundation various streets in the Boro. of Brooklyn.

TROY, N. Y.—See item under Sewers.

BUFFALO, N. Y.—Bids will be received by Francis G. Ward, Comr. of Public Works, until 11 a. m., Oct. 11, for laying brick driveway, etc., in connection with new school building to be known as School No. 11, located on West Delavan Ave., near Brantford Pl.

ROCHESTER, N. Y.—The contract for brick pavement in Gardiner Park, has been awarded to F. V. BROTSCH & SON CO., E. & B. Bldg., Rochester, at $5,685.

*SCARSDALE, N. Y.—We are officially advised that the following bids were received on Sept. 26, by Frank Sibley, Town Clk., for grading, draining and macadamizing with bituminous macadam, Sherbrook and Heathcote roads and Griffin Ave., a total of 1.53 miles: E. L. ERBECK, White Plains, N. Y., $18,000 (awarded contract); Tony Richards, White Plains, $18,712.

Also for treating in the same manner as described above, portions of Grand Boulevard Brambach Ave. and Evart St., a total of .86 mile: William F. McCabe, White Plains, $12,100; Frank Bracalello, Scarsdale, $10,-347; TONY RICHARDS, White Plains, $10,-175 (awarded contract).

BAYONNE, N. J.—The following contracts for street improvements were awarded on Sept. 27, by the Bayonne Council: Asphalting of 42d St. from Ave. C to Ave. E., UVALDE ASPHALT CO., Greene St., Jersey City, at $11,603; asphalting of 13th St. to UVALDE CO., at $12,278; asphalting of 17th St., to UVALDE CO., $5,569, paving with brick of 19th St. between Ave. C. and the Boulevard to E. M. MULLEN & CO., $5,290.

ATLANTIC CITY, N. J.—The County Board of Freeholders on Sept. 22 awarded a contract to the UNITED PAVING CO., Bartlett Bldg., Atlantic City, for the paving of the Chelsea Heights section of the meadow boulevard with warranite at $37,000.

The work is to be done in conjunction with plans approved by Frederick Gilkyson, State Road Comr., for the beautification of the automobile entrance to Atlantic City at Albany Ave.

ROSELLE PARK, N. J.—We are officially advised that bids were received by the Mayor and Council of the Boro. of Roselle Park on Sept. 30, at the Borough Hall, for the construction of macadam roadway on Union road, from Westfield Ave. to Grant Ave., and on Grant Ave., from Union Road to Walnut St. C. H. WINANS CO., of Linden, N. J., received the contract for 6-in. macadam at 80 cts. a sq. yd. and for 4-in. macadam at 58 cts, a sq. yd. A. M. Woodruff is Boro. Clk. and J. Wallace Higgins, 405 Chestnut St., Roselle Park, and 347 Fifth Ave., New York, is Boro. Engr.

*ERIE, PA.—See item under Water Supply—Irrigation.

NORTH BRADDOCK, (Braddock post-office), PA.—Bids will be received by C. A. Stewart, Boro. Engr., Municipal Bldg., Jones Ave., North Braddock, until 3 p. m., Oct. 7, for the following work:

For the grading, curbing and paving of Earl St. from Lobingier Ave to Stokes Ave. Packer Ave. from 13th St., to its eastern end.

Roy St. from Price Ave. to Seddon Ave.

For the re-paving of portions of Hawkins, Jones and Bell Ave., along the street railway tracks.

PHILADELPHIA, PA.—See item under Electric Railways.

WESTERNPORT, MD.—See item under Water Supply-Irrigation.

PARKERSBURG, W. VA.—It is reported that C. SKIDMORE has been awarded the contract for the ensuing year for the laying of new curbs, relaying paving and other general street work which is not contracted for by advertising for bids.

TARPON SPRINGS, FLA.—The CHATTANOOGA PAVING CO. has ben awarded the contract for $45,000 street improvements. Vitrified brick will be used. E. G. Stiles is City Engr.

*JACKSONVILLE, FLA.—Bids will be received by the Board of County Commissioners at their office in the County Court House, Jacksonville until 9.30 a. m., Nov. 1 for grading, laying, curb and paving approximately 20 miles of hard surfaced county roads in Duval County, Florida, as per plans and specifications on file in the office of Gail L. Barnard, County Engr., Room 9, County Court House, Jacksonville. F. J. Hyde is Chn. of Bd.

BIRMINGHAM, ALA.—The proposed 30 ft. boulevard to connect Ensley and Wylam which has been under consideration for some time, is now to be built according to reports. The Street Committee of the Birmingham City Council can be addressed.

WETUMPKA, ALA.—It is stated that Elmore County will spend the $175,000 recently voted for good roads. E. W. James, U. S. Highway Engr., recently made provisional surveys for the proposed road.

CINCINNATI, OHIO.—Bids will be received at the office of the Board of County Commissioners, until noon, Oct. 21, for repair of south fork of Taylor's Creek road, from Mack to Dog Trot road, and Dog Trot road to Burr's Corner, in Green and Miami Townships. Fred Dreihs is Clk.

COLLEGE HILL, OHIO.—Bids will be received by F. R. Strong, Village Clk., until noon, Oct. 7, for furnishing the necessary labor and materials for the construction of a cement sidewalk on the south side of Tecoma Ave. from Hamilton Ave. to the east end of the street, about 100 ft.

COSHOCTON, OHIO.—The City Council has adopted resolutions declaring it necessary to improve Orchard St. from Park Ave. to Tenth St.; Park Pl. from Adams St. to Orchard St.; North Eighth St. from Chestnut St. to the northern terminus; and Park Ave. from Walnut St. to Main St.

COLUMBUS, OHIO.—Bids were opened on Sept. 28 at the office of the County Commissioners of Franklin County for the improvement of the Canal Winchester Road. Contract was awarded to E. A. PATTERSON of Malta, Ohio, the only bidder, at $12,438. The work will be under the supervision of the State Highway Department.

DELAWARE, OHIO.—The City Council has adopted resolutions declaring it necessary to improve South St. from Sandusky St. to Franklin St. and to construct a sanitary sewer in North Sandusky St.

GREENVILLE, OHIO.—Bids were opened on Sept. 30, at the office of the County Commissioners of Darke County for the improvement of the Childrens Home Roads BAKER & KNIESLEY of Greenville, submitted the only bid at $6,641 and received award. At the opening of bids for the improvement of the Jayesville and Sampson road, Darke county the same date, the bids were above the estimate and the work will be readvertised.

COLUMBUS, OHIO.—Contracts for state bid roads have been awarded as follows. Summit County, State Highway D, Petition No. 318, South Main St. Road, bids opened on Sept. 21, to E. McSHAFFREY & SON of Akron, Ohio, at $22,308; Sandusky County, State Highway A, Petition No. 274, Section No. 1, Port Clinton Road Harrison Trail bids opened on Sept. 23, to CALLAGHAN & PARKINSON of Bellevue, Ohio, at $14,064; bids opened on Washington County, State Highway C, Petition No. 259, Waterford Road Sept. 20, to FRANK BECKWITH, of Malta, Ohio, at $10,893; Franklin County, State Highway D, Petition No. 213, Winchester Road bids opened on Sept. 28, to E. A. PATTERSON, of Malta, at $12,438.

McCONNELLVILLE, OHIO.—Bids will be received at the office of the County Commissioners until Oct. 7 for grading and macadamizing a road one mile long in Morgan Township, Morgan County, under the provisions of the State Highway Law. Estimated cost, $6,470. J. C. Wonders is State Highway Comr.

MT. VERNON, OHIO.—Bids were opened on Sept. 29 at the office of the County Commissioners of Knox County for the improvement of the Columbus and Delaware Road. Only one bid was received, that of the OHIO PAVING CO., of Toledo, $16,700 and the contract was awarded to the company.

POMEROY, OHIO.—Bids will be received at the office of the County Commissioners of Leigs County until Oct. 6, for grading and paving with brick a road in Rutland Township after the plans of the State Highway Department. Estimated cost, $4,617. J. C. Wonders is State Highway Comr.

TOLEDO, OHIO.—Bids will be received by the Board of Commissioners of Lucas County, at the office of the County Auditor, Toledo, until 10 a. m., Oct. 14, for all labor and furnishing all materials, tools, machinery and appliances required for the repair of Stone Road No. 29, known as the River Road, between Maumee and Turkey Foot Rock, in Monclova Township and the village of Maumee.

Bids will be received by the Board of County Commissioners of Lucas County, until 10 a. m., Oct. 10, for furnishing and applying all materials required in the treatment, with three applications of carbo-via No. 2, of the Stone Road Improvement in Jerusalem and Oregon Townships, known as the Brown Road, treatment to be applied to a uniform width of 14 ft. throughout the length of improvement, and in an amount not less than one-third gallon per sq. yd. for each such application.

Bids will be received by the Board of County Commissioners of Lucas County until 10 a. m., Oct. 19, for all labor and furnishing all materials, tools, machinery and appliances required for the improvement by grading, draining and macadamizing of a portion of a country road known as Adams Township and City of Toledo Stone and Gravel Road No. 11. Charles J. Sanzenbacker is County Audr.

YOUNGSTOWN, OHIO.—Bids will be received by the Director of Public Service until noon, Oct. 7, for furnishing the necessary labor and materials for paving Woodbine Ave., from Elm St. to Wick Ave., and Bryson St., between Woodbine Ave. and Parkview Ave; also, for furnishing the necessary labor and materials for the repaving of Rayen Ave. between Walnut St. and Belmont Ave. W. H. McMillin is Clk.

BRAZIL, IND.—Bids will be received by the Board of Commissioners of Clay County, 11.30 o'clock a. m., Oct. 7, for the improvement of a public highway in Harrison Township in Clay County.

KOKOMO, IND.—The Board of Public Works on Sept. 20 awarded contract to WALTER J. DIXON for the improvement of a portion of North Webster St. The street will be paved with Metropolitan brick.

INDIANAPOLIS, IND—The Park Board is preparing to ask for bids for the grading and paving with gravel 38th St..

The Board of Public Works is asking for bids for paving and curbing portions of Newton Ave., Rural St., LaSalle St., Elder Ave., Michigan St., Defrees St., Temple Ave., and Calvelage St.

FORT WAYNE, IND.—The Commissioners of Allen County will receive bids until 10 a. m., Nov. 12, for the construction of a gravel road in Maume Township. George W. Lindemuth, is County Audr.

PRINCETON, IND.—The Commissioners of Gibson County will receive bids until 11 a. m., Oct. 15, for the construction of four gravel roads. William T. Roberts is County Audr.

LAFAYETTE, IND.—The Commissioners of Tippecanoe County will receive bids until Oct. 15, for the construction of a gravel road known as the George W. Brown gravel road. John P. Foresman is County Audr.

LOGANSPORT, IND.—Contract was awarded on Sept. 21 by the Board of Public Works for paving Fifth St. to GEORGE W. PALMER, Logansport.

MILWAUKEE, WIS.—Bids for grading Grand Ave., from the west and of the new viaduct to the Hawley Road will be asked soon. Charles R. Poetsch is City Engr.

CROOKSTON, MINN.—Bids are asked by A. M. Childs City Clk., until 8 p. m., Oct. 11, for paving several streets.

NORFOLK, NEB.—The Madison County Commissioners have authorized the construction of an oil road in northern Nebraska to be built out of Norfolk.

ABILENE, TEX.—The Citizens have voted to issue $150,000 of bonds for good roads in Precinct No. 1.

LAWTON, OKLA.—Bids will be received at the Department of the Interior until 2 p. m., Oct. 11, for furnishing labor and material and the construction of 2,000 sq. yds. more or less, of granolithic sidewalk around the school reserve in Block 31 of the north addition to the townsite of Lawson. Plans and specifications for the work can be examined at the office of T. L. Brodie, Clk. Lawton Schoolhouse, Lawton.

PACIFIC CITY, WASH.—The county has awarded contract for grading four miles of road west of Pacific City, on the Pierce County line to J. T. KRUMM of Orillia, at $8,835.

SEATTLE, WASH.—R. H. Thompson, City Engr., has reported upon the estimated cost of the following street improvements: Eighth Ave., South, and other streets, paving, asphalt laid upon the existing roadway.

$19,500; Court Pl, paving with asphalt, $1,575; 37th Ave. South, and other streets, grading and curbing, $1,400; Yesler Way, paving with granite blocks, $10,000.

Bids will be received by the Board of Public Works, C. B. Bagley, Secy., until Oct. 7, for the following street improvements: Olive St. and other streets, planking, $14,000; East Highland Drive and 23d Ave., paving, $13,500; 15th Ave. West and Thorndyke Ave. planking, $3,000; East Jefferson St. and other streets, by paving, $24,500; Calhoun St. and other streets, curbs and watermains, $28,000; Fifth Ave. South, and other streets, watermains, $18,000; Whitman Ave. and other streets concrete walks, $32,000; Fourth Ave. and other streets paving with brick, $75,000; Stewart St. and other streets cluster lights, $15,000; 14th Ave., grading, $1,600; 17th Ave., N. W., and other streets, by grading, $11,000.

The Board of Public Works, on Sept. 27, awarded the following contracts. 38th Ave. and other streets, paving to P. J. McHUGH at $19,520. The Independent Asphalt Paving Co., bid $21,328; 31st Ave. and other streets, paving with asphalt, to same at $39,627. The Independent Asphalt Paving Co., bid $37,363; 15th Ave., N. E., and other streets, water mains, to FERGUSON-COIT CO., at $10,559. Other bidders were: Allain & Hull, $11,210; American Contracting Co., $10,990; Powers Contracting Co., $11,670; Dicken & Rightmire, $11,499; Will Kpota, $11,983. Woodland Park Ave., and other streets, grading to W. F. MANNEY & CO., at $14,064; S. F. Mougin, $15,907. Grading of the alley in Block 8 Randall's Addition to WILL KOPTA at $1,125.

ROSEBURG, ORE.—The City Council has awarded to CLARK & HENRY CONSTRUCTION CO., contract for paving about 20 blocks of street here with asphalt.

LOS ANGELES, CAL.—The contract was awarded by the Board of Public Works, for improving 35th St. to P. A. THOMAS, at $410,107, for grading and graveling, oiling and cement gutter.

PORTERVILLE, CAL.—The WORSWICK PAVING CO., has been awarded contract at $6,621, for grading and paving Putnam Ave; also constructing concrete gutters and two catch basins, furnishing and laying cast iron pipe at $4,891.

YREKA, CAL.—The bid of REED & WHITE to construct cement sidewalks on Oregon St. from the corner of Minor St. north to the creek, a distance of five blocks, at 15½ cts. per ft. has been accepted by the Trustees.

SANTA ANA, CAL.—M. L. CURTIS, Los Angeles, has been awarded contract for petrolithic paving on Birch St. and North Main St.

VENICE, CAL.—The City will ask for bids for grading and asphalt paving on concrete base on Park Row, Innes Pl., Zephyr and Giralda Aves.

FORT WINFIELD SCOTT, CAL.—Bids for clearing and grubbing land at Fort Winfield Scott, will be received until 11 a. m., Oct. 7, by Maj. George McK. Williamson, Constr. Q. M., U. S. A., Fort Mason, San Francisco, Cal. until 11 a. m., Oct. 7.

VENICE, CAL.—The City Council has authorized the City Clerk to receive bids for constructing a 10-ft. cement sidewalk on Horizon Ave.

DOUGLAS, ARIZ.—Bids will be received by R. A. Craig, Bd. of Control, Phoenix, Ariz., until 2 p. m., Oct. 18 for construction of a territorial highway between the towns of Douglas and Lowell. Address Territorial Engineer.

LADYSMITH, B. C.—The Council contemplates the construction of four miles of concrete sidewalks. C. H. B. Toft, Victoria, is Consult. Engr.

MANUFACTURING PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

RATTLEBORO, VT.—According to reports, the Board of Trade is negotiating with M. Z. Chase, of Providence, R. I., and H. L. Harriman, of Hyde Park, Mass., for the establishment in Brattleboro of cotton mills costing approximately $500,000. A tentative site has been decided upon. The mills would employ 200 hands at the outset. The promoters ask for a free site, subscriptions for $120,000 of the capital stock of $470,000, and ask exemption from taxes for a period of years. The plant would be operated by electricity from the Connecticut River Power Co.'s plant at Vernon, Vt.

CLINTON, MASS.—We are officially advised that the contract for constructing extensive additions to the mills of the Clinton Wire Cloth Co., at Clinton, has been awarded to WILMARTH & MACKELLOP, of Pawtucket, R. I.

LOWELL, MASS.—The Allerton Worsted Mills, which have been incorporated with $30,000 capital, will build a worsted mill for the manufacture of yarns of all kinds. Mark Ingham, of North Chelmsford, is Pres.

LAWRENCE, MASS.—The Farwell Bleachery, of Lawrence, is planning an addition to the plant. It will be one story in height, 95 × 35 ft., of block construction.

BROCKTON, MASS.—It is stated that Mrs. E. F. Nelson, of Taunton, is to erect a factory building on Centre St., Brockton, which will be occupied by the C. A. Eaton Co., shoe manufacturers. It will be brick and steel, 7 stories, with a floor space of 90,000 sq. ft. It will be ready for occupancy Jan. 1B, 1911.

NEW BEDFORD, MASS. — Lockwood, Greene & Co., Archs., 93 Federal St., Boston, have been selected to prepare plans for a picker mill and storehouse for the Soule Mill at New Bedford. The storehouse will be five stories high, of brick mill construction, 90 × 100 ft., and the picker mill will be two stories, of brick mill construction, 96 × 64 ft., with a 2-story addition for a waste house, 50 × 21 ft., of same construction. There will be a full sprinkler equipment and one electric elevator, or motor-beltB-driven elevator.

FALL RIVER, MASS.—The present operating plant of the Fall River Gas Co. is to be replaced by a 2-story work building and a 2-story stable. The proposed building will be built on the site now occupied by the two present buildings, and wiBll have on the lower floor a fitting department, storeroom, etc.

NORFOLK DOWNS (Quincy post-office), MASS.—Plans have been completed by Joseph C. Schaeffler & Co., Archs. and Engrs., Tremont Bldg., Boston, Mass., for a $30,000 fireproof factory building to be erected at Norfolk Downs for the S. H. Couch Electric Co., 156 Purchase St., Boston. The general contract has been awarded to the C. A. DODGE CO., of Cambridge.

ARLINGTON (Providence post-office), R. I.—The Providence Box & Lumber Co., of Providence, R. I., is to erect a factory at Arlington, District of Cranston. The main building will be 80 × 200 ft., with a wing, 40 × 40 ft., and a power plant, attached to main building, will be 32 × 67 ft. The buildings will be of mill construction, with extra wide windows, giving perfect light. The structure will be protected from fire by automatic sprinklers.

PHENIX, R. I.—Plans have been completed by Joseph C. Schaeffler & Co., Archs. and Engrs., Tremont Bldg., Boston, Mass., for the erection of a fireproof lace mill at Phenix. The general contract has been awarded to JOHN F. McCUSKER. Estimated cost, $75,000.

BRIDGEPORT, CONN.—The contract for constructing a 1-story brick addition, 60 × 190 ft., to the factory of Max Henkels, has been awarded to LEWIS A. MILLER, of Meriden. Samuel M. Green, Inc., 318 Main St., Springfield, Mass., prepared the plans.

SOUTHINGTON, CONN.—The contract for erecting the proposed factory building at Southington for the Clark Bros. Bolt Co. has been awarded to the TORRINGTON CONSTRUCTION CO., of Torrington.

AMSTERDAM, N. Y.—We are officially advised that the contract for building an addition, 28 × 258 ft., to the spinning mill of McCleary, Wallin & Crouse, manufacturers of carpets and rugs, has been awarded to the H. C. GREENE CO., of Amsterdam. The structure will be four stories high, of brick, timber and iron, mill construction. Cost, $30,000.

BUFFALO, N. Y.—The Buffalo Gasoline Motor Co., 1280 Niagara St., has completed plans for the erection of a 2-story brick warehouse addition to its plant at Niagara St. and Auburn Ave.

The Buffalo Leather Co., William R. Smith, Gen. Mgr., 920 Seneca St., will erect a 2-story brick fireproof factory, 100 × 250 ft., at 19 to 27 Hardware Pl. Estimated cost, $50,000.

ELMIRA, N. Y.—The Ironware Hosiery Co., Elmira, is planning the enlargement of its plant. This concern was incorporated in 1909 with a capital of $10,000. The output of its plant is cotton and lisle seamless half-hose. E. G. Crowell is Pres. and Treas., and C. S. Lattin is Secy.

SYRACUSE, N. Y.—Gordon A. Wright, Arch., Onondaga County Savings Bldg., Syracuse, has let to CHARLES HYATT the general contract for the erection of a modern factory building in East Water St., near Grape St., for the Dodge & Zuill Co., 214 Dillaye Block.

NEWARK, N. J.—Plans have been drawn by Tracy, Swartwout & Litchfield, Archs., 24 Fifth Ave., New York, for a 4-story addition, of reinforced concrete construction, 165 × 175 ft., to the plant of the American Colortype Co., 759 Summer Ave. There will also be a 1-story boiler and engine house, about 50 ft. square. Estimated cost, $100,000. SALMOND BROS. CO., of Arlington, are the builders.

NEWARK, N. J.—The AMERICAN CONCRETE STEEL CO., Union Block, was awarded a contract, recently, for the erection of a plant for the Ellis Adding-Typewriter Co., at Elizabeth and Hawthorne Aves., which, when completed, will cost about $45,000. The structure, which will be fireproof, will be four stories in height, with basement, and will cover an area of 50 × 206 ft. The walls, flooring and roof construction will be of reinforced concrete throughout. The AMERICAN CONCRETE STEEL CO. are also the engineers for the structure.

The Butterworth-Judson Co., Passaic River, **Newark, has filed plans for an extension to** its plant in Plum Point lane. It will consist of a 2-story brick addition **to cover an area of 70 × 275 ft., which, when completed, will** be used as a **process and burner building.** There will be considerable piling work required. Joseph Broome, 123 Liberty St., New York, is the Arch.

PITTSBURG, PA. — The McCLINTIC-Marshall CONSTRUCTION CO., Park Bldg., Pittsburg, will construct a brick and steel machine shop at Washington and Boggs Aves., for the Pittsburg Railway Co.

Plans have been prepared for the erection of a concrete factory at Windsor and Walker Sts. for Price & Lucus, manufacturers of cider and vinegar, Walker and Rebecca Sts., Pittsburg. The site was recently bought for $20,000. The structure will be four stories high, 150 × 108 ft. Vernon D. Price is interested.

RIDGWAY, PA.—A. R. Mechling, of Clarington, Pa., and Forest Hoff, of Warren, Paa., Bare planningto establish a plant in Ridgway for the manufacture of all kinds of lubricating oils, it is stated.

TRAFFORD, PA.—The Westinghouse Electric & Manufacturing Co., Union ank Bldg., Pittsburg, has completed plans to build a foundry at Trafford City on a site of 70 acres near the foundry of the Westinghouse Machine Co. Work will begin at once. The plant will cost $3,000,000, and will give employment to 3,000 skilled workers.

WESTFIELD, PA.—The contract for constructing a tannery, 50 × 200 ft., with a wing, 56 × 75 ft., for Joseph F. Eberle, manufacturer of leather goods, has been awarded to the F. H. JOHNSTON CONSTRUCTION CO., of Elmira, N. Y. Pierce & Bickford are the Armhs., 120 Lake St., Elmira.

WILMERDING, PA.—Plans have been prepared by the Westinghouse Air Brake Co., Westinghouse Bldg., Pittsburg, for a carpenter shop which will be located west of the new blacksmith shop and close to the retaining wall which is in course of construction along Turtle Creek from the end of the old wall to the Pennsylvania R. R. bridge. The building will be 60 × 211 ft. and three stories high.

HAGERSTOWN, MD.—The Casein Co. of America recently completed arrangementsB for locating in Hagerstown a milk plant that will eventually cost $90,000. Besides handling milk and cream by modern methods, the company purposes manufacturing paint, glue, paper size, food products, buttons, mucilage and chicken food from the by-products of the milk. The company has secured a site for the factory in the northwestern suburbs, along the Cumberland Valley R. R., and will start construction. Isaac L. Rice, 5 Nassau St., New York, is Pres. and Treas., and Maurice Barnett, same address, is Secy. and asst. Treas.

BALTIMORE, MD.—Plans for the proposed office and factory building for the Plant and Land Food Co., on Garrison La., were recently completed. The building will be three stories high, of brick and stone, and is to cost about $10,000. Among those who are estimating are J. Henry Miller, 334 North Charles St., Henry S. Ripple and the Engineering Contracting Co., 502B St. Paul St., all of Baltimore.

ORANGEVILLE (Baltimore post-office), MD.—The Pennsylvania R. R. Co. has awarded a contract to IRWIN & LEIGHTON, Franklin Bldg., Philadelphia, Pa., for the erection of eight machine buildings and a power plant to cost about $100,000, at Orangeville, near Baltimore, it is stated.

BUCKHANNON, W. VA.—Plans are in course of preparation for the erection of a window glass factory at Buckhannon. Address Secretary of the Board of Trade.

FAIRMONT, W. VA.—The Fairmont Mining Machine Co. has awarded the contract for the erection of additional buildings on the Belt Line on South Side, which will double the capacity of the plant when it is completed. The contract includes the erection of an office building. H. B. Hungerford is Gen. Supt.

WILLIAMSTOWN, W. VA.—The Marietta (Ohio) Rustic Co. has been incorporated, and will build a plant at Williamstown to manufacture gas lamps and various kinds of pottery ware.

SOUTHBOUND, N. C.—It is stated that the Singleton Silk Mfg. Co., of Paterson, N. J., is planning the erection of a mill at South bound, a new town being built on the Winston-Salem Southbound R. R. by Col. John T. Patrick.

ANSONVILLE, N. C.—A. H. Richardson, of Ansonville, is said to have completed arrangements for his proposed cotton mill and hydro-electric plant. No authoritative statement has been made, but it is understood that the water-power electric plant will cost $40,000, and that the mill will be capitalized at $1,000,000. The power plant will probably require the construction of a 300-ft. dam across the Rocky River near Kendall Ferry, which is about 15 miles north of Wadesboro, N. C. Engineers are surveying the power site, and have stated that about 6,500 HP. can be developed for transmission by electricity for lighting and power.

SPRING HOPE, N. C.—D. L. Culpepper, of Spring Hope, is planning the organization of a company to build a large cotton factory, it is reported. He proposes to develop a waterpower on Tar River, obtaining 1,000 HP. for transmission by electricity to operate the mill. The water-power is about six miles from Spring Hope.

ALABAMA.—E. B. Reed and others, of Columbus, Ga., and vicinity, have formed a stock company for the purpose of developing 100 acres of land on the side of the Chatahoochee River, opposite the plants of the Columbus Mfg. Co., the Swift Spinning Mills, the new Merftas Mills and the Bibb Mfg. Co. The company proposes to build a new mill town on the Alabama side of the Chattahoochee; also a bridge costing $50,000 across the river. It is stated that the plans will be carried out at once.

ABBEVILLE, LA.—Persons interested in the erection of a sugar refinery here, have formed a temporary organization by electing O. J. Chauvin Chn., and L. J. Broussard Secy.-Treas. It was decided to name the company, when permanently organized, the Abbeville Sugar Co., Ltd. The capital stock will be $259,000. It is proposed to erect a plant with a capacity of 1,000 tons of cane in 24 hours.

BATON ROUGE, LA.—The Standard Oil Co. contemplates the erection of a paraffin plant here. M. Oliver, of New Orleans, head of the paraffin plant construction system, will supervise the erection.

AKRON, OHIO.—The Royal Rubber Co. will shortly increase its capital stock from $50,000 to $200,000 for the purpose of making extensive improvements to the plant.

ALLIANCE, OHIO.—Albert Allen, Engr., has awarded the general contract for an extension to the plant of the McCasky Register Co. at Alliance, to the SKEEL BROS. CO., 1656 Columbus Road, Cleveland. The building will be of brick, steel and concrete construction, 50 × 200 ft. and will cost about $25,000.

CINCINNATI, OHIO.—Plans are being prepared by Taylor & DeCamp, Archs., First National Bank Bldg., for a 5-story building at the northeast corner of Eighth and Cutter Sts. for the Standard Publishing Co. The lot is 75 ft. square. It is said that the foundation and supports will be strong enough to enable the company to add three stories later on, making eight stories in all. From present indications ground will not be broken until next spring.

CINCINNATI, OHIO.—A fac[illegible] building will be erected on the north [illegible] of Langdon Ave. by A. S. Boyle & [illegible] now located at 1908 West Eighth St. [illegible] present factory is to be disposed of. [illegible] estimated cost, $25,000.

COLUMBUS, OHIO.—It is an[illegible] that the Felber Biscuit Co., Spri[illegible] Park Sts., Columbus, will erect a [illegible] factory of reinforced concrete.

We are officially advised tha[illegible] is no truth in the report that the [illegible] Valley Ry. Co. will build freigh[illegible] and terminals in Columbus, as noted [illegible] pt. 22.

WARREN, OHIO.—The Vul[illegible] furnace Co., of Detroit, Mich., has de[illegible] to remove to Warren, where new bu[illegible] will be erected on a site furnished by [illegible] Board of Trade. The plant will cost $[illegible]

FORT WAYNE, IND.—The W[illegible] Auto-Axle Co. has completed plans [illegible] proposed factory building which wi[illegible] erected on a tract of land on Hayden [illegible] recently purchased for that purpose. Th[illegible] construction of the factory will be starte[illegible]

INDIANAPOLIS, IND.—The Ele[illegible] Lighting Co. has been incorporated wi[illegible] capital of $100,000 to build and equip a [illegible] tory to manufacture electric lighting app[illegible] C. Wedding, S. C. Renick and W. [illegible] Harbison are Dirs.

CONSTANTINE, MICH.—A compa[illegible] is being organized by Charles H. Brown, [illegible] Constantine, for the building of a gr[illegible] elevator, three stories high, 40 × 50 ft.

DETROIT, MICH.—Albert Daniels[illegible], of Kalamazoo, will soon receive estim[illegible] es on a 2-story addition to the factory [illegible] nt of the Detroit Sulphite Fiber & Paper Co., N. H. Erbstein, Pres. The addition is to cost $250,000 and will be of brick with composition roof, concrete floors, structur[illegible] iron work and electric fixtures.

The Massnick-Phipps Mfg. Co., 1091 Champlain St., is contemplating the erection of a concrete factory building.

The Detroit Dearborn Motor Car Co., C. E. Furgason, Mgr., at Dearborn, is contemplating constructing an automobile factory, 300 × 45 ft. Cost, $25,000.

The Detroit Injector and Brass Mfg. Co., W. W. Warren, Secy., 1366 Beaubien St., will soon build a foundry addition to its present plant.

DETROIT, MICH.—Rogers & MacFarlane, Penobscot Bldg., let the following contracts on Sept. 20 for the proposed 2-story factory building, 251 × 60 ft., for the Warren Motor Car Co., Homer Warren, Pres.: Masonry, to J. E. HIGG, 445 Military Ave.; carpentry, to L. W. BEAKER, 1166 Fourth Ave.; steam heating, to A. L. WALT, 1116 Jefferson Ave.

Varney, Winter & Varney, Equity Bldg., let the following contracts on Sept. 20 for the proposed $50,000 factory addition for the McRae & Roberts Brass Co., 227 Campbell Ave. The buildings are to be of brick and mill construction. The main building will be three stories, 60 × 191 ft., foundry one story, 60 × 139 ft., fireproof boiler house, 37 × 60 ft. The building will be connected to present plant by three bridges, 25 × 12 ft. Masonry, to GEORGE VIVIEN & SON, 4[illegible] Forest Ave. West.; carpentry, to J. A. HABERKORN, 380 14th Ave.

FLINT, MICH.—The Packers Co., Archs. and Engrs., Wright Bldg., St. Louis, Mo., will receive estimates about Oct. 12 for a 4-story and basement packing plant, 46 × 105 ft., for W. C. Wolcott, of Flint. The building will be heated by steam. One horizontal tubular boiler, 60 × 12 ins., will be required.

GRAND RAPIDS, MICH.—Preparations are being made by the Imperial Furniture Co. for the erection of a plant in Grand Rapids. It will be equipped for electric-motor drive.

Williamson & Crew, "The Gilber[illegible]," will receive bids soon for the car barns and offices to be built for the Grand Rapids Ry. Co., B. S. Hanchett, Gen. Mgr., 38 North Ionia St. The building is to be brick, fireproof construction, one story, 185 × 200 ft. and two stories, 120 × 200 ft. Cost, $50,000.

The Excelsior Wrapper Co., W. E. Tallmadge, Engr., Grand Rapids, will receive bids soon for the construction of dry kilns in their plant at Godfrey Ave. and Hall St.

The Marquette Lumber Co., John Weed, Secy., 120 Fulton St., is having plans prepared and will soon receive estimates on dry kilns for its plant.

KALKASKA, MICH.—The Freeman Mfg. Co., W. C. Freeman, Pres., is contemplating the erection of a manufacturing plant to replace the one recently destroyed by fire.

MUSKEGON, MICH.—Vanderwest and Peas, Montgomery Bldg., are preparing plans for a factory for the Michigan Crank Shaft Co., Y. M. Ritchie, Secy., Laketon Ave., and Grand Rapids & Indiana Ry. The building is to be two stories, 64 × 138 ft., of brick and mill construction. Cost, $20,[illegible]

ROSE CITY, MICH.—A company has been organized, care of E. C. Thulin, [illegible] Helen Ave., Detroit, for the constru[illegible] of a chemical factory, to be built of steel and iron work, one story high, 60 × [illegible] ft.

SAGINAW, MICH.—The Jacks[illegible] Church Co., E. D. Church, Secy., H[illegible] St., Saginaw, is having plans pre[illegible] for a boiler plant, to be brick, firepro[illegible] construction. The factory will be one [illegible], 90 × 240 ft., 1-story engine room, 60 × 45 ft., a 1-story blacksmith shop, 60 × [illegible] ft., a 1-story boiler room, 50 × 60 ft., [illegible] machine shop, 1-story, 325 × 90 ft., fo[illegible], 350 × 100 ft., and one and two-stor[illegible] warehouse, pattern shop, storage room an[illegible] office, 60 × 200 ft., will also be erected. T[illegible] structures are to be heated by steam. [illegible] of plant, $80,000.

The Seeley Auto Engine Co. [illegible] entered into an agreement with the B[illegible] of Trade, it is stated, whereby the form[illegible] will build a plant in Saginaw. The plans [illegible] the main building call for a structure [illegible] × 200 ft., and about 200 men will be employed. The company is capitalized at $[illegible],000, with $50,000 paid in by patents and promotion.

STURGIS, MICH.—The National Carbon Coated Paper Co., C. L. Spence, Secy., Third and Plum Sts., Cincinnati, Ohio, let the general contract on Sept. 26 for the proposed factory building to be located in Sturgis, to W. A. CAROM, of Sturgis.

CHICAGO, ILL.—A. B. Mills, Arch., Logan Boulevard and Milwaukee Ave., has awarded the masonry to MEILLING & CO., 172 Washington St., and carpentry to CHARLES CARLSON for a 2-story factory, 70 × 137 ft., at Clybourn Ave. for the Schaff Piano String Co. It will be of brick and mill construction, with steam heating and electric light elevator.

CHICAGO, ILL.—C. M. Almquist, Arch., 112 Clark St., has awarded the plumbing contract to BEN LUDER for a 3-story factory, 50 × 100 ft., at Western Ave. and Ohio St., for Kraut & Dohnal, to be of fireproof construction, with steam heating and electric elevator.

Postle & Mahler, Archs., 204 Dearborn St., have awarded the general contract to the E. W. SPROUL CO., 215 Dearborn St. and structural steel work to HOLMES, PYOTT & CO., 13 North Jefferson St., for a 3-story macaroni factory, 70 × 130 ft., at 37th St. and Ashland Ave., for Zerega & Sons, to be of standard brick and mill construction.

According to reports, the Iroquois Iron Co., 226 95th St., Chicago, has let the foundation contracts to the GREAT LAKES DREDGE & DOCK CO., 138 Washington St., Chicago, for two blast furnaces to be built in South Chicago. The foundations alone will cost about $200,000 and the project will represent an expenditure of $2,000,000.

ASHLAND, WIS.—Articles of incorporation have been filed by the Ashland Paper Co., with a capital stock of $60,000. The company will erect a plant and install machinery at a cost of about $45,000.

DELAVAN, WIS.—We are officially advised that the Hirschberg-Williams-Washburn Co., C. E., Stephenson Bldg., Milwaukee, Wis., have awarded the general contract to B. J. DANIELSON, Milwaukee, for the construction of a 3-story and basement, reinforced-concrete factory building, 50 × 150 ft.; also a third-story addition to the present factory, 50 × 270 ft., for the Bradley Knitting Co., Delavan.

GREEN BAY, WIS.—It is reported that the Green Bay Barker Co., recently organized, is contemplating establishing a factory at Green Bay for manufacturing a machine designed for stripping bark from pulp wood in large mills. It is understood that the plant will be equipped for electric motor drive. Electricity for operating the plant will be purchased from the Northern Hydro-electric Power Co.

MILWAUKEE, WIS.—O. C. Uehling, Arch., Wells Bldg., is completing plans for the proposed paper and box factory, to be erected by the Hummel & Downing Co. at Cambridge Ave. on the Milwaukee River. It will be four stories high, of reinforced concrete, faced with red brick and cut stone. All machines will have individual electric drives, and the engines and boilers will furnish 1,200 HP. A fan heating system and ventilating will be installed. Cost, $400,000.

MOULTON & EVANS, of Minneapolis, have been awarded the contract for erecting and equipping a grain dryer plant for the Milwaukee Grain & Feed Co. The plant will have a capacity sufficient to dry all grains for the large Milwaukee breweries. The equipment includes driers, tanks, presses, individual motors, elevators, etc. The cost is $40,000. The building now to be erected will be only a temporary one.

MILWAUKEE, WIS.—See item under Water Supply—Irrigation.

NEENAH, WIS.—The Hardwood Products Co., it is reported, will erect a 3-story factory, 40 × 60 ft., with the cooperation of the Neenah Industrial Association in Neenah. A separate power plant will be erected. It is understood that the plant will be equipped for electrical operation.

DES MOINES, IOWA.—The Clark Steel Grave Vault Co., of Columbus, Ohio, has decided to locate in Des Moines where it will erect a steel grave vault factory at a cost of about $75,000.

MINNEAPOLIS, MINN.—The Minneapolis Furniture Frame Co. is reported to be contemplating the erection of a new 3-story building, to be equipped for electric-motor drive.

OMAHA, NEB.—The Schmoller & Mueller Piano Co. plans the erection of a factory in Omaha, it is stated, with a capacity of 5,000 pianos a year. William H. Schmoller is Pres.

SUPERIOR, NEB.—The contract for the steel construction work on the proposed plant of the Nebraska Portland Cement Co., at Superior, has been let to the KANSAS CITY CONSTRUCTION CO., of Kansas City, Mo. Clayton M. Loughlin is Pres. of the Cement Co.

KANSAS CITY, MO.—The American Automobile Mfg. Co., Inc., is planning to build a factory here at a cost of $250,000.

SHEFFIELD (Kansas City post-office), MO.—Plans have been prepared for the construction of a 4-story concrete building for the U. S. Stock Food Co. on Manchester Road. W. F. Tuttle is Gen. Mgr.

EL PASO, TEX.—Announcement was made recently by Morris & Co., meat packers, of Chicago, that the firm had purchased in Mexico, 1,250,000 acres of land for a cattle ranch. A packing plant, to cost $1,000,000, will be established here.

TEMPLE, TEX.—The Atchison, Topeka & Santa Fe Ry. Co. has appropriated $42,900 to be used in improving the shops here and providing additional machinery. J. Purcell, of Topeka, Kan., is Supt. Shops.

YOAKUM, TEX.—The Creamery Dairy Co., of San Antonio, let the contract recently for the erection of a 30 × 70-ft. brick creamery building at Yoakum to Horn & Pound, of San Antonio. The capacity will be 3,000 lbs. daily. Work to begin at once.

LAWTON, OKLA.—Reports state that a company has been organized at Lawton to build a cotton manufacturing plant. The officers are said to be the following: Pres., P. D. Anderson; Secy., M. A. Wert. The capital stock is $400,000.

CUTTER, N. MEX.—Plans are being drawn by Krause & Reeser, of El Paso, Tex., for an oxide plant to be erected at mines of Vanadium Mines Co. near Cutter. The plant for treating ore taken from Cutter mines will be 170 × 162 ft. and be equipped for operation at once.

DES MOINES, WASH.—A sawmill having a capacity of 50,000 ft. per day is to be erected this fall at Des Moines by A. Willard & Co., it is stated.

SPOKANE, WASH.—The International Portland Cement Co. has been incorporated at Spokane with a capital of $1,500,000 preferred and $1,500,000 common stock. An extensive plant will be erected here. J. S. Irvin, of Ottawa, Ont., is the organizer and will likely be President of the company. Among the directors are: Rudolph Forget, C. A. Bernard, K. C., and W. Grant Morden, of Montreal, Que.; Hon. J. P. Hartman, of Seattle; C. A. Irvin and J. S. Irvin, of the International Portland Cement Co. of Canada at Ottawa; D. P. McKinnon, of Calgary, Alta.; S. C. Near, of Toronto, and H. D. McKinnon, of Spokane.

The Kohler & Chase Piano Co. is planning to construct a building in Spokane, according to an announcement made by George G. Chase, of San Francisco, Western Supt. of Kohler & Chase, who recently visited Spokane.

PORTLAND, ORE.—According to J. L. Sterrett, Portland Manager of Schwartzchild & Sulzberger, the company will build a packing plant in Portland.

COLTON, CAL.—The Hub City Laundry Co. has been incorporated here and will erect a concrete laundry building.

RIVERSIDE, CAL.—C. W. Kinnear, 2007 Eastlake St., Seattle, Wash., has decided to erect a tent and awning factory in Riverside, it is stated.

RICHMOND, CAL.—Besides the shops which it has already planned for its plant here it was recently said that the Pullman Co. will erect a laundry on the site of its other buildings just south of this city for the purpose of handling all the washing on its cars in use on the Pacific Coast.

SANTA ROSA, CAL.—Greenbaum, Weyl & Michaels, of San Francisco, wholesale dealers and manufacturers in gents' furnishing goods, will establish their factory here. Work on the building to house the machinery and carry on their business will be begun at once.

SONOMA, CAL.—An iron and steel manufacturing plant is to be established on the tidewater a few miles south of this city in the near future. A large tract of land has been bonded there and it is declared that the entire plant of the company is to be moved here, and with it, 500 workmen. A steamer line from Embarcadero to San Francisco and an electric railroad to Sonoma, four miles distant, will be constructed and put in operation.

MURRAY, UTAH.—A proposition to build a tin can factory has been presented to the Commercial Club of Murray. The structure will be 65 × 85 ft. and will cost about $30,000. J. G. Park, City Councilman of Murray, is interested.

NEWMARKET, ONT.—Bids will be received by O. E. Tench, Arch., until Oct. 20, for the erection in Newmarket of a large 4-story factory building for the Office Specialty Mfg. Co.

WOODSTOCK, ONT.—The rate payers have carried the by law granting assistance to the Flce Board & Folding Package Co., Ltd. The company gets a free site, cheap light, power and water and a low rate of assessment.

The by law authorizing the expenditure of $10,000, with which to build a factory for the Canadian Linderman Co., Ltd., was also carried. The company agrees in return to equip factory with machinery and tools to the extent of $30,000, employing 50 hands, for which it gets the factory, a site for cheap power, light and water and a low rate of assessment.

The Canada Furniture Manufacturers, Ltd., are about to let contracts for the erection of a 3-story brick addition, 100 × 60 ft., on Mill St.

The Tobin Arms Co. has purchased the plant and machinery of the Caldwell Bit & Tool Co., of Port Rowan, and will erect an extension to their factory here in order to care for the increased business.

CAMPINAS, MEX.—A company is in course of formation here with a capital of 1,000 contos of reis (about $320,000 gold), whose object is to establish a cotton factory. Quesiti & Piagentini, merchants in Espirito Sonto do Pinhal, are about to establish a 300-loom mill. In Sao Carlos do Pinhal a $150,000 cotton mill is planned by Gemiano Costa and others.

The Government of the state of Alagoas has granted the Engineers Morales de los Rios and Luiz Olticiac a concession for the unification of the water, electric, traction, drainage, telephone and electric power services in the city of Macelo, as well as for a railway affording communication with the agricultural settlements the state intends to establish in its southern territory.

BLAYLOCK COLONY, STATE OF TAMAULIPAS, MEX.—A ten-stand cotton gin is to be erected here. It is also planned to erect a saw mill to exploit the cypress and cedar timber nearby, which will be made into shingles. The Colony is raising a large amount of broom corn and a factory to handle this product will probably be erected. William Laurence will have charge of the new improvements.

MISCELLANEOUS CONTRACTS.

*(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

SUBWAY.—Calgary, Alta.—The citizens voted, on Sept. 15, to issue $40,000 of bonds for a subway. W. D. Spencer is City Clk.

DREDGING.—Cleveland, Ohio.—Bids will be received until Nov. 1 by Col. John Millis, Corps. Engrs., U. S. A., Cleveland, for dredging Sandusky Harbor.

DITCH.—Redwood Falls, Minn.—L. P. Larson, County Audr., will receive bids until Oct. 12 for constructing Ditch No. 15, comprising 10,670 ft. of 6 to 14-in. tile.

CLAY LOAM.—New York, N. Y.—Bids are asked by the Park Board until 3 p. m., Oct. 13, for furnishing and delivering 430 cu. yds. clay loam for parks. Boro. The Bronx.

JETTY EXTENSION.—Cleveland, Ohio.—Bids are asked by Col. John Millis, Corps Engrs., U. S. A., Cleveland, until Nov. 1, for extending stone jetty at Sandusky Harbor.

COAL POCKET.—Philadelphia, Pa.—J. E. & A. L. Pennock are figuring on a 200-ft. concrete coal pocket and a stable at Ninth St. and Girard Ave. for the Moses La Rue estate.

AUTOMOBILE.—London, Ont.—Bids will be received until Nov. 2, by H. Ashplant, Chn. Committee No. 3, for an automobile or motor fire engine of 700 to 1,000 gallons capacity, with equipment.

BREAKWATER.—New Edinburgh, N. S.—Bids will be received until Oct. 12 by the Department of Public Works, Ottawa, Ont. R. C. Desroches, Secy., for constructing a breakwater here.

OIL PIPE LINE.—Toyah, Tex.—It is reported that the Texas Co., Houston, is considering the construction of an oil pipe line from the new oil field here to El Paso, a distance of 200 miles.

DREDGING.—Tuscarawas, Ohio.—The J. N. KISNER CONSTRUCTION CO., of Johnstown, has secured contract for 38,748 cu. yds. of dredging at 14.75 cts. per cu. yd. Bids were opened on Sept. 13.

DOCK.—Esquimalt, B. C.—Plans have been submitted to the Minister of Public Works at Ottawa by the British Columbia Marine Ry. Co. for the construction of a $3,000,000 dock at Esquimalt.

WHARF.—Corpus Christi, Tex.—The City Council has taken up the matter of building a municipal wharf to be owned and operated by the city. A bond issue of $30,000 will be voted on for this purpose.

WATERING TROUGHS.—Fort Robinson, Neb.—Bids are asked until 11 a. m., Oct. 10, by Capt. Malvern Hill Barnum, Const. Q. M., U. S. A., Fort Robinson, for the installation of steel watering troughs.

CONDUIT.—Hartford, Conn.—The Board of Contract and Supply on Sept. 22 awarded contract for constructing conduit from Sisson Ave. to Tremont St. to the HARTFORD PAVING & CONSTRUCTION Co., at $12,899.

LEVEE.—Logan, Ohio.—The State Board of Public Works has awarded contract for rebuilding Logan levee embankment, about 8,000 cu. yds., bids opened on Sept. 13, to J. W. McBROOM, of Logan, at 27½ cts. per cu. yd.

*DOOR OPERATING SYSTEM.—New York, N. Y.—Bids are asked by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., Nov. 13, for a pneumatic door-operating system at the U. S. post-office, New York.

RETAINING WALL.—Red Lake Falls, Minn.—Bids will be received until Oct. 7 by A. A. Latendresse, County Audr., for constructing a concrete retaining wall at the court-house, 8,000 sq. ft. cement sidewalk and 400 ft. curb.

BATTLESHIP, COLLIERS.—Washington, D. C.—Bids will be received by the Navy Department, Washington, until noon, Dec. 1, for constructing a battleship (No. 34) and two fleet colliers (Nos. 9 and 10). Beekman Winthrop is Acting Secy.

IMPROVING CREEK.—Buffalo, N. Y.—The contract has been awarded to DEWITT C. STEPHENS, 87 Altrucia St., Buffalo, N. Y., for improving Canaseraga Creek to prevent spring floods in the Genesee Valley. Estimated cost, $200,000

*BRACKETS, ETC.—Norfolk, Va.—Bids are asked by Col. Mason M. Patrick, Corps Engrs., U. S. A., until noon, Nov. 1, for c.-i. brackets, gear wheels, steel shafting, etc., for devices for transmission of range data at various batteries.

PAVING BLOCKS.—New York, N. Y.—Bids will be received by Kingsley L. Martin, Bridge Comr., until 2 p. m., Oct. 13, for furnishing and delivering medina or potsdam sandstone paving blocks to the Williamsburg Bridge.

*CRIB AND EMBANKMENT.—Duluth, Minn.—Bids are asked by Lieut.-Col. Graham D. Fitch, Corps Engrs., U. S. A., Duluth, until noon, Oct. 31, for building pier-head crib and riprap embankment for same at Ashland, Wis.

TUNNEL.—Los Angeles, Cal—The Hamburger Realty Trust Co. are having plans prepared for a concrete-lined tunnel to connect the Hamburger Department Store with the Majestic Theatre, to be three ft. wide, 6 ft. high, 300 ft. long.

*STEAMBOAT.—St. Louis, Mo.—Bids are asked by the Mississippi River Commission, Leggett Bldg., St. Louis, until noon, Nov. 16, for the construction and delivery of a 164-ft. side-wheel steamboat. Lieut. C. H. Knight, Corps Engrs., is Secy.

PILE DRIVING.—East San Pedro, Cal.—The Crescent Wharf & Warehouse Co. will make improvements to its water-front property. The MERCEREAU BRIDGE & CONSTRUCTION CO., of Los Angeles, has the contract for pile driving at $10,000.

FERRY. — Quebec, Que. — The Dominion Government will probably have constructed this winter, at Davies' dock, a $400,000 ferry, to be used on the St. Lawrence River, until the construction of the Quebec bridge is completed.

DITCH.—Red Lake Falls, Minn.—A. A. Latendresse, County Audr., will receive bids until Oct. 8 for constructing Ditch No. 47, approximating 99,428 yds. excavation, and Ditch No. 48, approximating 321,128 yds. of excavation. Estimated cost, $12,992 and $41,128, respectively.

DITCH. — Carroll, Iowa. — Contracts for constructing ditches have been awarded by the county as follows: Ditch 24, for construction only; to SORENSON BROS., of Clear Lake, at $2,698; for Ditch No. 30, to JOHN PETERSON, of Clear Lake, for the tile and construction, $6,074.

CONCRETE ICE PIERS.—Wheeling, W. Va.—All bids opened on Sept. 15 at the office of Capt. F. W. Alstaetter, Corps Engrs., U. S. A., Wheeling, for constructing three concrete ice piers in Kanawha River, W. Va., have been rejected, being in excess of the appropriation available.

BEAR DENS.—New York, N. Y.—Bids are asked by the Park Board until 3 p. m., Oct. 13; for furnishing all the labor and materials for the erection and completion of bear dens Nos 9 and 10 and additional bear dens in the New York Zoological Park in Bronx, Park, City of New York.

CONCRETE HEADING, ETC.—Farmington, New Mex.—The local electric light and power company, R. L. Knowles, Pres., will expend $100,000 in constructing concrete heading, spillway and concrete bulkheads along the river bank; the construction of a new dam and an ice and cold-storage plant.

*DREDGING.—Norfolk, Va.—The lowest bid for dredging Onancock River and bar, Va., 5,000 cu. yds., has been submitted by the Norfolk Dredging Co., Norfolk, at 23.9 cts., or $10,755. The River & Harbor Improvement Co., Philadelphia, bid 26.9 cts., or $12,105. Bids were opened on Sept. 29.

DOCK AND SLIP.—Buffalo, N. Y.—The Common Council has authorized Francis G. Ward, Comr. Pub. Wks., to prepare plans and specifications and advertise for bids for the construction of a dock and slip in the Erie Basin, Buffalo Harbor for the use of the Naval Militia of the State of New York.

DITCH.—Clinton, Ill.—Bids will be received by the Drainage Commissioners of De Witt Special Drainage District, De Witt and Platt Counties, at the office of the Clerk of DeWitt County, Clinton, until 1 p. m., Oct. 25, for the construction of the main drainage channel of said district.

RETAINING WALL.—Denver, Colo.—Contract will soon be let, it is reported, by the Board of Public Works for the Cherry Creek Improvement District No. 3, to include concrete retaining walls and other incidental improvements between West Colfax Ave. and Blake St. Estimated cost, $102,500.

FIRE-ESCAPES.—Columbus, Ohio. — The Board of Education has awarded contracts for the erection of fire escapes on the east, north and south high school buildings and on the Douglass, Fifth Ave., Mound St., Sullivant and Garfield schools to the DOW WIRE & IRON WORKS at $9,800.

DITCH.—Louisville, Ky.—Bids were opened by the Fiscal Court on Sept. 20 for excavating Pond Creek ditch, from Stations 250 to 450, from plans of S. F. Crecelius, 403 Equitable Bldg., Louisville. Contract has been awarded to R. H. & G. A. McWILLIAMS, 1600 Steger Bldg., Chicago, at $29,315.

REVETMENT AND PILING.—Kansas City, Mo.—Bids were opened on Sept. 21 by the Fire and Water Commissioners for 10,000 lin. ft. of revetment and piling on Missouri River, across from the Quindaro Pumping Station. Contract has been awarded to FARNEY & BAKER, of Kansas City, at $90,082.

DIKE.—Dorranceton (Wilkes-Barre post-office), PA.—Bids will be received until Oct. 7 by the Joint Dike Committee of the Boroughs of Kingston and Dorranceton, at the Council rooms, Dorranceton, for constructing a dike fill composed of about 103,000 cu. yds. John D. Grimes is Chn., Dorranceton.

NAVAL ARCHITECT.—Portland, Ore.—Bids will be received until Oct. 13 by A. L. Barbur, City Audr., for the service of a naval architect to superintend and inspect the construction of a steel fireboat for the city, to furnish all plans, specifications and estimates relative thereto. Estimated cost of boat, $125,000.

ROUNDHOUSE EQUIPMENT.—Ottawa, Ont.—Bids will be received until Oct. 18 by the National Transcontinental Ry. Commissioners, P. E. Ryan, Secy., Ottawa, for the equipment of a roundhouse at Lake Superior Junction, Ont., and for the centrifugal pumps and motors required for the sewage pumphouse at the Winnipeg shops.

*DREDGING.—New York, N. Y.—Bids were received as follows on Sept. 30 by Col. W. M. Black, Corps Engrs., U. S. A., for dredging in Saugerties Harbor, N. Y.: Newburgh Dredging Co., Newburgh, N. Y., 12 cts.; P. Sanford Ross, 13 4-10 cts.; Randerson & Hiller, 12½ cts.; Chas. Vivian & Co., 16⅔ cts.; Maritime Dredging Co., 18 cts.

TILE BLOCKS.—New York, N. Y.—Bids will be received by the Board of Health until 10 a. m., Oct. 18, for furnishing and delivering 50,000 terra cotta hollow tile blocks required for the construction of various buildings on the grounds of the Tuberculosis Sanitorium at Otisville, Orange County, N. Y., for the Department of Health.

DREDGING.—Baltimore, Md.—Bids were opened on sept. 16 as follows, at the office of Col. Thos. L. Casey, Corps Engrs., U. S. A., for dredging in southwest Baltimore harbor and Curtis Bay channel, about 400,000 cu. yds.: Maryland Dredging & Contracting Co., Baltimore, 10 cts. per cu. yd.; Sanford & Brooks Co., Baltimore, 9¾ cts.

*LOCK AND DAM.—Pittsburg, Pa.—The T. A. GILLESPIE CO., Pittsburg, has been awarded the contract for the construction of Dam No. 7 at Midland, Pa., on the Ohio River at $750,645. The contract for the dredging and excavating for the dam was sublet to the MONONGAHELA & WESTERN DREDGING CO. Noted on Sept. 22.

CABLES.—New York, N. Y.—Bids were received by the Department of Correction on Oct. 4, for furnishing and delivering lead-covered feeder, sub-feeder and duplex armored cables: National India Rubber Co., 45 Broadway, $11,203; Standard Underground Cable Co., $12,180; Safety Insulated Wire & Cable Co., $12,000; Bishop Gutta Percha Co., $13,498.

WIRELESS STATIONS.—Philadelphia, Pa. —Two wireless telegraph stations will be installed by the University of Pennsylvania.

GRANDSTAND.—Baltimore, Md.—The Baltimore Aero Club, care of Col. Jerome H. Joyce, 314 West Camden St., will erect a grandstand at Halethorpe, Baltimore County, Md., to seat about 60,000 people. Bids will soon be asked.

*DREDGING.—Duluth, Minn.—Bids were received as follows on Sept. 29, by Lieut.-Col. Graham D. Fitch, Corps Engrs., U. S. A., for dredging at Marquette, Mich.: Zenith Dredge Co., Duluth, 19¼ cts.; Great Lakes Dredge & Dock Co., Chicago, Ill., 25 cts.; Northern Dredge & Dock Co., Duluth, 19 cts. (recommended for award); Duluth Marine Contract Co., Duluth, 20 cts.

FIRE STEAMERS, ETC.—Wheeling, W. Va.—J. P. Altmeyer, Chief of the Fire Department, has prepared a set of plans for the rehabilitation of the city fire department. The plans provide for the erection of a new central station, the purchase of two new steamers, the establishment of two additional hose houses and the purchase of a large amount of new equipment. Estimated cost, $100,000.

SCENIC RAILWAY.—Los Angeles, Cal.—The Alta Plaining Mill Co. will probably be awarded contract to erect a scenic railway at Ocean Park for A. F. Fraser, to cost $50,000. The same company will probably be awarded contract to erect all buildings on Horse Shoe Pier, to be erected for Mr. Fraser and associates. Estimated cost of buildings, $600,000. Eager & Eager are Archs.

*DAM.—Cincinnati, Ohio.—Bids were received as follows on Sept. 26 by Maj. John C. Oakes, Corps. Engrs., U. S. A., for constructing dam No. 13, Kentucky River, with abutment and protection wall at Thirteen P. O.: James Skene & Sons Co., Huntington, W. Va., $177,860; Smith, Towles & Co., Thirteen, Ky., $183,690; W. F. Garretson, Cincinnati, Ohio, $162,795; Sheridan-Kirk Contract Co., Cincinnati, $210,912.

*COAL-CRUSHER SYSTEM.—Washington, D. C.—Bids will be received by the Bureau of Mines until 2 p. m., Oct. 10, for the construction, at Washington, of sheet metal and structural iron parts of a coal crusher system; an electric or hydraulic lift in connection with same: and various laboratory fixtures including tables, hood, sinks and shelves of sheet metal, steel, wood and stone with gas pipe supports, for the Bureau of Mines.

*DREDGING.—Galveston, Tex.—Bids were received as follows on Sept. 27, by Maj. G. P. Powell, Corps Engrs., U. S. A., for dredging channel from Aransas Pass to Corpus Christi, Tex., 1,000,000 cu. yds.: Bowers Southern Dredging Co., Galveston, 13.74 cts.; $137,400. Home Dredging Co., Mobile, Ala., 13.9 cts.; $139,000. L. T. Gaylord, Houston, Tex., 14.49 cts.; $144,900. North American Dredging Co. of Texas, Galveston, 14.7 cts.; $147,000.

PLAYGROUND. — Philadelphia, Pa.—Bids were opened at the Mayor's office on Sept. 20 by the Playground Committee for converting Starr Garden Park, at Sixth and Lombard Sts., into a playground and a model recreation center, from plans of Philip H. Johnson, Arch. The work includes a building, construction of swimming pool and concrete work, and grading and paving work. Contract has been awarded to DOYLE & CO., 1519 Sansom St., at $47,970.

*DREDGING.—Duluth, Minn.—Bids were received as follows on Sept. 30 by Lieut.-Col. Graham D. Fitch, Corps Engrs., U. S. A., for dredging in Duluth Horen Basin: Northern Dredge & Dock Co., Duluth, Minn., 14 cts.; Great Lakes Dredging & Dock Co., Chicago, Ill., 9.9 cts.; Duluth-Superior Dredging Co., Duluth, Minn., 9 cts. (recommended for award); Zenith Dredge Company, Duluth, Minn., 10¾ cts.; Empire Engineering Corporation, New York, N. Y., 15 cts.

LOCKKEEPERS' HOUSES.—Wheeling, W. Va.—Bids were opened on Sept. 29 by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., for building two 2-story 8-room lockkeepers' houses at Dam No. 11, Ohio River: The Finley Bros. Co., Chester, W. Va., $12,300 (brick and frame construction); Guy Johnston Contracting Co., Toronto, Ont., $11,344 (brick and frame) and $11,938 (fireproof tile construction); Scamahorn & Gilchrist, Brilliant, Ont., $14,415 (brick and frame).

WATERWAY, ETC. — Watson, Mo. — No bids were received on Sept. 15 by G. M. Moore, Pres. Bd. Supervisors of the North Nishnebotna Drainage District, at office of Watson Banking Co., Watson, for constructing a cement waterway or flume with wings, aprons, flood gates, etc., for the purpose of connecting and receiving a portion of the waters of the Nishnebotna River and connecting same with drainage system of the district, which is about 3 miles south from Hamburg, Iowa.

CANAL.—Beaumont, Tex.—The U. S. War Department, Washington, D. C., has granted a permit to the Navigation Commissioners for the Beaumont navigation district of Jefferson County, and has approved the plans and specifications for the improvement of Neches River and deepening of Sabine-Neches Canal under expenditure of the $498,000 bond issue voted by the taxpayers of the navigation district in 1909. George D. Anderson is Secy. and Attorney for the Navigation Commissioners.

ROCK. — Detroit, Mich. — Bids were received as follows on Sept. 26 by Col. C. McD. Townsend, Corps Engrs., U. S. A., Detroit, for furnishing about 9,000 tons of rock for the piers at St. Clair Flats Canal, Mich.: J. D. Kennedy, Detroit, $1.27; $11,430. Oliver E. Dunbar, Detroit, $1.33; $12,000. Great Lakes Dredge & Dock Co., Chicago, Ill., $1.47; $13,230. Great Lakes Construction Co., Buffalo, N. Y., $1.80; $16,200. H. Houghton & Sons, Detroit, $1.90; $17,100. M. Babbitt & Sons, Toledo, Ohio, $2.25; $20,250.

PASSAGEWAY.—New York, N. Y.—Bids will be received by the President of the Board of Trustees Bellevue and Allied Hospitals until 3 p. m., Oct. 17, for all labor and material required for erecting and completing a temporary enclosed passageway between the present driveway entrance to the Administration Building and pavilions "A-B" together with connection to and enclosed iron stairway at the rear of the phychopathic pavilion, at the Bellevue Hospital, situated 26th to 29th Sts., First Ave. to East River, Boro. Manhattan.

SEA WALL.—New Orleans, La.—The Committee on Finance of the City Council on Sept. 19 opened bids for the construction of a sea wall at Lakeside Park, West End. The lowest bid, it is reported, was submitted by J. D. McGee, of Greenville, S. C., as follows: Piles in place, $7.40 per pile; sheet piling per M. ft., $21.60; tie rods, $1.40 per rod; excavation, 40 cts. per cu. yd.; reinforcing rods per lb., 2.25 cts.; concrete in place, 29.4 cts. per cu. yd. The lowest bid for filling behind the wall was that of the Home Dredging Co., of Mobile, Ala., at 11.37 cts. per cu. yd.

OIL RESERVOIR.—Fellows, Cal.—CARL LEONARDT, H. W. Hellman Bldg., Los Angeles, Cal., has secured contract at $85,000 for constructing a reinforced concrete reservoir for the American Oil Fields Co., at Fellows, circular in form, with square-twisted steel reinforcements, to be covered with wooden roof, supported by concrete piers; capacity, 550,000 bbls. The WEBER-DULLER CO., Pacific Electric Bldg., Los Angeles, was awarded contract by the same company for a similar oil reservoir to be concrete-lined and timber-roofed. Capacity, 500,000 gals.

*DREDGING.—Galveston, Tex.—Bids were received as follows on Sept. 19 for dredging Texas City Channel: (a) deepening and widening present channel from Station O to 22, about 1,262,000 cu. yds.; (b) extending upper end of channel 687 ft., about 85,500 cu. yds.; (c) maintaining channel from Station 22 to end; (d) Total for items 1 and 2: L. T. Gaylord, Houston, Tex. (a), 12½ cts. per cu. yd.; (b) 7 7/10 cts. per cu. yd.; (c) 50 cts. per cu. yd.; (d) $164,333. Bowers Southern Dredging Co., Galveston, (a) 10½ cts.; (b) 12 cts.; (c) $1.20 per lin. ft.; (d) $142,770; North American Dredging Co. of Texas, Galveston, Tex., (a) 9 99/100 cts.; (b) 9 99/100 cts.; (c) 9 99/100 cts. per cu. yd.; (d) $134,615.

*DREDGING DIKE.—Philadelphia, Pa.—Bids were received by Maj. Herbert Deakyne, Corps Engrs., U. S. A., 815 Witherspoon Bldg., Philadelphia, on Oct. 1, for dredging and dike construction in Delaware River between Philadelphia and Trenton: (a) Mud Islands Section, 100,000 cu. yds. channel excavation, 800 ft. dike construction; (b) Kinkora Section, 90,00 cu. yds. channel excavation; (c) Bordentown Section, 260,000 cu. yds. channel excavation, 5,200 ft. dike construction; (d) Duck Island Section, 370,000 cu. yds. channel excavation; (e) Biles Island Section, 280,000 cu. yds. channel excavation, 1,800 ft. dike construction: Atlantic Gulf & Pacific Co., 13 Park Row, New York, (a) 15 cts. and $12, respectively; (b) 12 cts.; (c) 15½ cts. and $6.25; (d) 24 cts.; (e) 29 cts. and $6.25. Richards Dredging Co., Real Estate Trust Bldg., Philadelphia, (c) 16 cts. and $11, (d) 40 cts. American Dredging Co., Mar. & Mer. Bldg., (a) 13.9 cts. and $13.88; (b) 12½ cts.; (c) 9.7 cts. and $6.65; (d) 20.7 cts.; (e) 37½ cts. and $5.80.

DRAINAGE.—Chapin, Tex.—At the October meeting of the Board of County Commissioners of Hidalgo County, the Drainage Commissioners will submit for formal approval the plans and estimates of the engineers for a drainage system comprising 350,000 acres of land. Estimated cost, $1,600,000. The drainage district in which this work is to be carried on was created sometime ago, and, as a preliminary step, bonds for $175,000 were voted and issued. The proceeds from these bonds have been used to make the necessary surveys and do other work necessary to starting the system. E. B. Gore, Ch. Engr., and his associates have gone over the situation, and their report is complete as to the feasibility and value of the project. Upon formal approval of the plans by the Board of County Commissioners, an election will be called to vote bonds for approximately $1,600,000 to carry out the project. The plans prepared by the Chief Engineer and his associates provide for constructing a levee along the Rio Grande, where necessary, leaving a few openings at points where that stream has connection with old resacas and former river beds. These old water courses will be cleaned and deepened so as to carry off the surplus flow of the river when floods occur. The Arroyo Colorado will be used as the main drainage canal for the system. It empties into the Laudna Madre, which is a part of the Gulf of Mexico.

CONTRACT PRICES.

*(*Denotes that this work is advertised in Engineering News.)*

LOCK AND DAM NO. 12, OHIO RIVER.—Bids were received Sept. 16 by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., Wheeling, W. Va., for the construction of Lock and Dam No. 12, Ohio River. The bidders were: (A) Pneumatic Caisson Co., New York, N. Y.; (B) T. A. Gillespie Co., Westinghouse Bldg., Pittsburg, Pa.; (C) Ohio River Contract Co., Evansville, Ind.; (D) Sheridan-Kirk Contract Co., Cincinnati, Ohio. The itemized bids were as follows.

LOCK AND DAM NO. 12, OHIO RIVER.

	A.	B.	C.	D.
4,000 lin. ft. cofferdam, 16-ft.	$20.00	$22.00	$20.00	$20.00
1,600 lin. ft. cofferdam, 10-ft.	10.00	12.00	10.00	15.00
124,200 cu. yds. common excavation	.65	.60	.75	.50
100 cu. yds. rock excavation	5.00	4.00	2.50	4.00
55,600 cu. yds. fill	.50	.50	.60	.40
26,200 cu. yds. riprap	3.00	4.00	4.00	3.85
345 cu. yds. stone paving	6.00	6.00	8.00	6.00
112,850 lin. ft. round piles	.50	.60	.60	.50
1,043 M. ft. B. M. sheet piles	60.00	80.00	75.00	95.00
696 M. ft. B. M. common timber	50.00	65.00	70.00	70.00
242 M. ft. B. M. deck timber	60.00	65.00	70.00	60.00
70 M. ft. B. M. oak timber	80.00	130.00	100.00	100.00
130 cu. yds. reinforced concrete	15.00	15.00	10.00	8.00
52,500 cu. yds. concrete	6.50	5.50	6.50	6.25
930,000 lbs. structural steel	.063	.07	.07	.075
92,000 lbs. reinforcing	.04	.06	.07	.055
45,200 lbs. forgings	.085	.08	.07	.085
169,000 lbs. bolts	.05	.06	.07	.065
301,500 lbs. iron castings	.04	.08	.07	.06
187,000 lbs. steel castings	.055	.11	.10	.11
1,170 lbs. bronze	.80	1.00	1.00	.80
320 lin. ft. pipe, 5-in.	2.00	3.00	3.00	1.00
2,500 lin. ft. pipe, 4-in.	1.80	2.00	3.00	1.00
450 lin. ft. pipe, 3-in.	1.50	1.00	3.00	1.00
750 lin. ft. pipe, 2½-in.	1.00	.75	2.00	1.00
830 lin. ft. pipe, 2-in.	.80	.70	1.50	1.00
850 lin. ft. tile drain	.70	.50	.75	1.00
Totals	$908,492	$966,924	$1,032,166	$981,528

*SUMMIT, N. J.—Bids were received on Sept. 20 by the Common Council for constructing sewers in Springfield Ave. and Tulip St., from (A) Frank Bruno, Newark, N. J.; (B) John C. Schrado, Williamsport, Pa.; (C) J. A. Christie, Newark, N. J. John S. Stiger is City Engr. The itemized items are as follows:

	A.	B.	C.
4,152 cu. yds. earth	$0.50	$1.00	$0.60
1,193 cu. yds. earth	1.25	1.40	.90
64 cu. yds. earth	3.00	2.00	1.80
220 cu. yds. rock	3.55	3.00	1.50
70 cu. yds. rock	4.00	4.00	4.50
4 cu. yds. rock	5.00	6.00	5.00
11 cu. yds. concrete	7.40	12.00	10.00
975 lin. ft. 8" vitrified pipe	.43	.50	.30
3,985 lin. ft. 10" vitrified pipe	.53	.70	.42
100 lin. ft. 4" house connections	.15	.30	.20
12 existing house connections	4.90	2.50	10.00
10 V branches (plain)	1.00	11.00	2.00
13 V branches (reinforced)	15.00	11.00	10.00
9 line manholes	40.00	75.00	50.00
4 junction manholes	50.00	115.00	50.00
4 junction drop manholes	50.00	125.00	58.00
1 flush tank	65.00	125.00	125.00
Totals	$8,662	$12,743	$8,169

IMPROVEMENTS, OHIO RIVER.—Bids were received Sept. 16 by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., Wheeling, W. Va., for the construction of lock, guide walls, and weirs for Dam No. 12, Ohio River. The bidders were: (A) Pneumatic Caisson Co., New York, N. Y.; (B) Ohio River Contract Co., Evansville, Ind.; (C) Sheridan-Kirk Contract Co., Cincinnati, Ohio; (D) T. A. Gillespie Co., Pittsburg, Pa. The itemized bids were as follows:

IMPROVEMENTS, OHIO RIVER.

	A.	B.	C.	D.
2,800 lin. ft. cofferdam, 16-ft.	$25.00	$20.00	$20.00	$22.00
1,700 lin. ft. cofferdam, 10-ft.	12.00	10.00	15.00	12.00
84,300 cu. yds. common excavation	.70	.75	.60	.80
3,925 cu. yds. rock excavation	3.00	3.50	4.00	4.50
500 lin. ft. drilling bolt holes	1.00	1.00	.50	1.00
55,800 cu. yds. fill	.50	.60	.50	.50
3,360 cu. yds. riprap	4.00	4.00	3.85	4.00
38,200 lin. ft. round piles	.60	.60	.60	.50
513 M. ft. B. M. sheet piles	60.00	80.00	95.00	70.00
65 M. ft. B. M. oak timber	80.00	100.00	120.00	130.00
46,350 cu. yds. concrete	6.50	6.50	7.00	7.00
885,000 lbs. structural steel	.063	.07	.0807	.07
5,000 lbs. reinforcing	.06	.07	.0632	.07
43,000 lbs. forgings	.085	.07	.1082	.07
65,200 lbs. bolts, etc.	.05	.07	.0657	.06
167,600 lbs. iron castings	.04	.07	.0632	.06
133,000 lbs. steel castings	.06	.10	.15	.10
1,170 lbs. bronze	.80	.90	.80	1.00
2,050 lin. ft. pipe, 4-in.	1.80	3.00	.50	2.00
1,500 lin. ft. pipe, 3-in.	1.50	3.00	.40	1.50
750 lin. ft. pipe, 2½-in.	1.00	2.00	.35	1.00
830 lin. ft. pipe, 2-in.	.80	1.50	.30	.75
850 lin. ft. tile drain	.70	.75	.20	.60
Totals	$649,739	$679,109	$707,228	$698,833

DAM NO. 13, KENTUCKY RIVER.—Bids were received Sept. 26 by Maj. John C. Oakes, Corps Engrs., U. S. A., Cincinnati, Ohio, for the construction of Dam No. 13, Kentucky River. The bidders were: (A) James Skene & Sons Co., Huntington, W. Va.; (B) Smith, Fowles & Co., Thirteen, Ky.; (C) W. F. Garretson, Cincinnati, Ohio; (D) Sheridan-Kirk Contracting Co., Cincinnati. The itemized bids were as follows:

DAM NO. 13, KENTUCKY RIVER.

	A.	B.	C.	D.
55,000 cu. yds. earth excavation	$0.68	$0.65	$0.3[illegible]	$0.75
300 cu. yds. rock excavation	3.90	4.00	2.[illegible]	5.00
23,000 cu. yds. embankment	.33	.45	.325	.70
300 cu. yds. ballast	1.95	2.50	1.9[illegible]	4.04
18,000 cu. yds. concrete	4.80	4.60	4.6[illegible]	5.45
18,500 bbls. cement	2.00	2.40	2.2[illegible]	2.45
300 cu. yds. paving	5.15	7.00	4.6[illegible]	6.00
500 tons derrick stone	3.90	3.00	2.[illegible]	2.00
500 tons riprap	2.70	2.50	2.[illegible]	2.00
4,500 ft. B. M. timber	80.00	100.00	123.[illegible]	90.00
33,000 lbs. iron and steel	.07	.08	[illegible]	.09
Placing valves (lump sum)	200.00	500.00	32[illegible]	250.00
Totals	$177,860	$183,690	$162,[illegible]	$210,912

DREDGING.—Bridgeport, Conn.—The following bids were received Sept. 15 by Lieut.-Col. Harry Taylor, U. S. A., for dredging in Bridgeport Harbor: (A) Maritime Dredging Co., (B) John P. Randuson, (C) Coastwise Dredging Co., (D) William Beard & Co., (E) Taylor Dredging Co., (F) International Contracting Co. The itemized bids are as follows:

DREDGING BRIDGEPORT, CONN.

	A.	B.	C.	D.	E.	F.
230,000 cu. yds.	$0.14	$0.138	$0.11	$0.118	$[illegible].129	$0.129
288,000 cu. yds.	0.149	0.138	0.11	0.128	[illegible].119	0.129
230,000 cu. yds.	0.135	0.138	0.11	0.118	[illegible].121	0.129
288,000 cu. yds.	0.149	0.138	0.11	0.118	[illegible].121	0.129
Totals	$73,962	$71,872	$56,980	$61,124	$6[illegible]178	$66,822

CURRENT PRICES OF ENGINEERING MATERIALS

Supplement to ENGINEERING NEWS, appearing in the First Issue of Each Month. New York, October 6, 1910.

PRICE CHANGES AND THE BUSINESS OUTLOOK.

The purchasing departments of the railways have been buying with more freedom and in practically every case have specified that the goods were for prompt shipment. General business is not as unsatisfactory as many reports have portrayed. Construction work is active and it is difficult to secure laborers to execute the work. In all lines of trade, however, the profits are small compared with those of recent years, and unless better returns are made on capital some firms will go out of business. Government work has been especially active, many contracts having been let for river and harbor improvement during the last fortnight. Municipal work is likewise more plentiful.

Prices of iron and steel have declined slightly. The demand for finished steel is unusually quiet and on large orders marked concessions can be secured. Cast iron pipe is from $1 to $2 per ton cheaper than last month. Coke is likewise easier. A favorable sign for higher prices is the better demand for scrap iron and steel. In the Pittsburg district somewhat higher prices have been paid for steel scrap. Metals are in slightly less demand, but at unchanged prices. Painting materials have advanced sharply, owing to the unusual price of both linseed oil and spirits of turpentine.

The demand for laborers continues unabated. It is difficult to see how any greatly increased volume of business could have been transacted this year with the present supply of labor. In almost all lines, manufacturers and contractors complain of the shortage of competent workmen. Railway employees have again insisted on higher wage schedules. A strike of the bricklayers in New York already involves a considerable share of the building trades employees in New York City and is spreading to other sections.

The cost of labor is in many cases out of proportion to the work done. The price of commodities has declined sharply during September and the cost of living is now less than four months ago.

The favorable returns from agriculture, which are now assured, form the basis for reasonable expectations of a continuance of the satisfactory business done last year. The corn crop will be larger than the most sanguine believed possible three months ago.

The improvement noted in the market for Municipal and State securities has continued. The railways too have been able to sell some bonds within the last month, a thing impossible during the preceding three months.

The automobile industry is far less active and additions to existing plants are less common. In other industries there are numerous plant extensions, notably the General Electric Co. and the National Fireproofing Co.

The leading railways are contemplating large expenditures for improvements. Several of the trunk lines are considering grade crossing eliminations in Ohio. The Atchison has prepared a budget, showing contemplated expenditures of over $60,000,000 in the next two years. The new owners of the Boston & Maine propose to make extensive improvements on that property. Southern railways have under construction numerous double-tracking projects.

LABOR.

The bricklayers strike in New York and elsewhere. The shut-down of mills abroad shows the continued unrest. It is recognized that the margin of profit in many kinds of building and construction work is so small that it will be out of the question to grant further wage increases this year. The high cost of living, which was so potent an argument used by laborers in the early months of the year, has not continued to increase, and in fact the index numbers now are about the same as they were in January. Indications point to a decrease rather than an increase in the cost of commodities. Labor is well employed, and most manufacturers advance the opinion that more workmen could be employed in their specific lines of trade could they be obtained. Construction work is probably more active now than at any time this year, and with a continuance of the favorable weather will probably be active for several weeks.

A fact brought out very forcibly in the recent railway rate inquiry was that the diversity of trades and the separating of certain lines of work into various specialties was largely responsible for the increased cost. Locomotive engineers formerly did a great deal of the wiping and cleaning of their engines while standing on sidings and waiting in yards that is now left to the roundhouse employees. Similarly, the train hands are now doing only train work, while not so many years ago they attended to the lamps, did some of the minor cleaning, and on milk trains assisted in icing the cars. This has made more jobs, with no actual benefit to the men relieved of their duty. There is a prospect that some of this may be changed.

Laborers on construction work are receiving $1.65 per day, compared with $1.75 a day last month. Some inferior workers can only command $1.50. Contractors employing large numbers of laborers are more and more disposed to employ their men by the month.

CEMENT, LIME AND BRICK.

PORTLAND CEMENT. — Prices are only fairly firm. In some instances old contracts seem quite elastic. The smaller companies are well sold up, and the larger manufacturers have more business on their books than last year at this time. A prevailing notion in the East is that a strong interest is making itself felt in the Lehigh Valley district, and it will be a potent factor in keeping price fluctuations within narrow limits. It will, in any event, discourage the promiscuous building of cement mills, which has been so unsettling a factor for several years.

Prices are unchanged at $1.53 per bbl. in New York; $1.50 in Philadelphia; $1.60 in Buffalo, $1.62 in Boston and $2.20 to $2.50 on the Pacific coast. Pacific coast prices apply to cement from store. The Eastern prices represent a quotation of about 90 cts. per bbl. in bulk at the mill. In Atlanta, Ga., the price is $1.35 net.

Imported cement is unchanged at $2.42 for Alsen's and $2.43 for Dyckerhoff's.

NATURAL CEMENT.—Makers of natural cement have had considerable business from the telephone and telegraph companies, but are able to supply needs promptly. The quotation is unchanged at 80 cts. per bbl., delivered in New York harbor. In Boston $1.05 is quoted.

LIME.—Business continues active. Manufacturers are able to make shipments promptly, but, at the same time, are not complaining of the volume of business offered. Some slight changes have been made in the price of lime, particularly finishing lime. The following prices are for lots of 500 bbls., delivered in New York City: State common, per bbl., 75 cts.; Rockland-Rockport common, 92 cts.; Rockland-Rockport special, 300 lbs., $1.37; finished, 300 lbs., $1.47; finishing, 200 lbs., $1.02, and 350 lbs., $1.62; New Milford, $1.30.

Hydrated lime is sold at $9.00 per ton.

Adamant wall plaster is $6.00 per ton, dedelivered in New York harbor. In Boston $1.05 is quoted.

BRICK.—The makers of brick report that the demand is less active than earlier in the year, and some yards have closed down, due to the falling off in the inquiry. While there is admittedly some overproduction, it is not great, and is less than former years. One reason for this is the activity in connection with the Ashokan Reservoir, which has taken the surplus labor from the brick yards. Brick manufacturers report that it is difficult to obtain the proper kind of labor for yard work. There may be a falling off in the demand in New York City, due to the locking out of some bricklayers. In the suburban territory the demand is fair.

In Atlanta, Ga., good average brick are $6.50 per M. and hard brick are $7.50 per M.

Prices of Hudson River and Raritan River brick are slightly higher at $5.25 to $5.37½.

In Boston the price is unchanged at $7, and a like figures is quoted in Chicago.

White enameled brick are moving freely at the unchanged price of $60 per thousand for the American size (8¾ × 2¼ in. enameled surface by 4⅛-in. bed), and $70 to $75 for the English size (9 × 3-in. enameled surface by 4½-in. bed). These prices are f. o. b. Perth Amboy.

PLASTER BLOCKS.—For large lots prices are as follows:

	Weight. lbs. per sq. ft.	Price cts. per sq. ft.
2-in.	7	6
3-in.	8½	6½
4-in.	11	7¼

These blocks are made 32-in. long by 13½-in. wide, containing 3 sq. ft. of surface.

The 2-in. blocks are solid, but the others are hollow.

Plaster boards ⅝-in. thick are 16 cts. per sq. yd.

STONE.

BLUESTONE.—Prices are slightly firmer. There is a fair demand for stone; in fact, it seems greater than the supply. This is purely on account of the labor conditions, it having been impossible to secure men for work in the quarries in sufficient number to get out the stone. Perhaps if higher wages had been offered conditions would have been different. In the Hudson River district many of the quarry men were attracted to the Ashokan Reservoir and the work offering there, so that the quarries in the vicinity of Kingston did not furnish their usual quota of stone. With the good demand, dealers complain that the margin between the cost of producing and deliveding the stone and the selling price is too small to admit of a profit. This is apparently true, and another year may see less bluestone delivered in New York harbor.

Prices of curbing are higher, but otherwise are without change from those of last month. For delivery, either alongside of dock or f. o. b. cars New York City, quotations are as follows: Flagging, 6 cts. per sq. ft. per in. of thickness; flagging, 2½ to 3-in. thick that will pass New York City specifications, 18 to 19 cts. per sq. ft. Some concessions, however, have been made and stone of this character has sold at 17 cts.

Sewer bottoms 5 ft. sq. and 3-in. thick are sold at 25 cts. per sq. ft. Curbing, 5 × 16-in., is 40 cts. and 5 × 24-in. by 5-in. thick is 60 cts., and 6-in. thick is 65 to 70 cts. per lin. ft., 5 × 20-in. by 5-in thick is 50 cts.

Promiscuous shapes of building and foundation stone sell at 70 to 74 cts. per sq. ft.

GRANITE. — The demand for granite is limited. Prices continue unchanged at 40 to 45 cts. per cu. ft. for promiscuous shapes or run of quarry.

Pink Milford granite is $1.00 per cu. ft. for promiscuous shapes.

LIMESTONE.—The demand is light, and prices are unchanged at 85 cts. per cu. ft., delivered alongside of dock, New York. Dressed stone is quoted at $1.25 to $1.50 per cu. ft.

Sandstone in the rough is 80 cts. to $1.00 per cu. ft.

INTERIOR STONE.—Slate flooring, 1-in. thick, can be had at 20 cts. per sq. ft. for the common or ribbed variety. Clear black sells at 35 to 40 cts., and the same price is asked for Vermont. A combination of slate and marble flooring is 30 cts. per sq. ft.

Marble floor, finished ready to lay, of Vermont marble, is 50 to 70 cts. per sq. ft.; Italian marble, 70 to 90 cts. Tennessee marble can be had at 65 cts. Ordinary stair work, such as slate steps, are quoted at 24 cts. per sq. ft.

CRUSHED STONE, SAND AND GRAVEL.

CRUSHED STONE.—Some of the dealers in stone, in fact, most of the large ones, have had inquiries from contractors who contemplate bidding on the new subways. This business will not develop until next year, if then, but it can be readily seen that it will make the stone, gravel and sand markets much stiffer. The volume of business now offered is not quite as large as a month ago, but stone dealers affirm that the volume of business booked during July and August was satisfactory. In some instances the following prices would be shaded to the extent of 5 to 10 cts. a cu. yd. Otherwise the prices of last month are repeated:

In Boston, 90 cts. is quoted for ¾-in., 75 cts. for 1½-in., and 65 cts. for 2¼-in., all per net town. Atlanta, Ga., $1.15 to $1.20 per net ton.

For 1½-in. stone, 90 cts. to $1.00 a yd. is quoted; ¾-in. stone, 95 cts. to $1.10, and screenings are also sold at 95 cts. to $1.10. These prices are for full cargo lots of 500 cu. yds., delivered alongside of dock, New York City.

SAND.—The demand for sand continues good, especially for white quartz sand. Prices are without change, washed sand from Long Island being quoted at 35 cts. per cu. yd. White quartz sand is 60 cts. per cu. yd., and white quartz grit, 75 cts. per cu. yd. All of these prices are for delivery alongside of dock, New York, and for full cargo lots of 500 yds. At Atlanta, Ga., the price is $1.30 to $1.50 per net ton.

GRAVEL.—The demand for gravel continues active, and contractors are freely specifying on old contracts. Prices are slightly easier, especially for delivery for this year, as the season is about to close. The best grades of washed gravel can be obtained at 75 cts. to 85 cts. per cu. yd. These prices are for full cargo lots of 500 yds., delivered alongside of dock, New York City.

White quartz roofing gravel is $1.25 to $1.35 per net ton.

IRON AND STEEL.

PIG IRON.—Although business was more active during September, the volume was still below that booked during the early months of the year, and the few price changes there were made were toward lower levels. There is no doubt but the blast furnaces are taking a course that is calculated to bring the pig-iron market to a firm basis in the near future. There is no general curtailment in production, but as prices decline obsolete furnaces and those unfavorably situated are forced to go out of blast. This reduces the amount of iron made, and, at the same time, the lower prices will eventually stimulate new business. That there is a healthy tone to the market is shown by the fact that there are premiums of 50 cts. to $1 a ton demanded for iron to be delivered next year. There is a little business of this character being taken, but the attitude of the furnace men is significant. Quite a little is heard regarding the coke prices for next year. Some furnace interests are willing to contract for iron to be delivered in spite of this fact that they have not been settled, but in general there is no disposition to book business unless something better than the prevailing price can be obtained. The jobbing foundries have a great deal more business than earlier in the year, principally because large manufacturers were unwilling to contract for their requirements, and have since been forced to go in the open market and buy castings.

Price changes have been without any particular significance, reductions having been noted of 25 cts. a ton in Chicago and Philadelphia on foundry iron and a like amount on Bessemer iron in Pittsburg. Basic iron is 50 cts. a ton cheaper than a month ago. In Birmingham, whereas it was possible to obtain iron at $11 last month, the inside figure is now $11.50, and some interests have sold as high as $12.

The following quotations are for lots of 100 gross tons and over f. o. b. the points named: Cincinnati, Southern foundry No. 1, $14.75 to $15.25; Southern foundry No. 2, $14.25 to $14.75; Southern foundry No. 4, $13.50 to $14. In Philadelphia, Eastern Pennsylvania No. 2X foundry is $16 to $16.25; Eastern Pennsylvania No. 2 plain, foundry, is $15.50 to $15.75. In Chicago, Northern foundry No. 2 is $16.25 to $16.75; Southern foundry No. 2, $15.35 to $15.85. In Pittsburg, Bessemer iron is $15.90 and basic $14.40, including the 90-ct. freight rate from the valley. In New York, Northern foundry No. 2X is $15.25 to $15.75; Southern foundry No. 2, $15.25 to $15.50. In Birmingham, Southern No. 2 can be had at $11.50 for prompt shipment; for delivery during the last half of the year, $11.50 is asked.

STEEL RAILS.—The rail business has been more active during the last fortnight than at any time in several months. A few orders have been booked for foreign shipment, notably one contract for Chilean rails, and between 6,000 and 7,000 tons to go to Brazil. The Denver & Rio Grande has purchased 13,600 tons, the San Pedro 12,000, and the St. Paul 5,000 tons. Some trolley roads have been in the market for small quantities, and it is probable that some of the larger trunk line railways will buy rails for needed yard extensions.

Quotations are without change, the following prices being named for lots of 500 tons and over, carload lots being held at 50 cts. a ton additional; these quotations are f. o. b. mill: Standard sections, 50 to 100-lb., $28; 40 to 45-lb., $27; 30 to 35-lb., $27.50 to $28.50; 20 to 25-lb., $27.25 to $28.25; 12 to 14-lb., $29; 8 to 10-lb., $32. Relaying rails are slightly firmer in New York at $20.50 to $21.50, but in Chicago they are unchanged at $24 to $25.

TRACK SUPPLIES.—Slightly more business has been done during the last month, but in general the demand has been far below normal. The St. Paul has purchased track fastenings, and some of the Southwestern roads are in the market for track material. It is generally believed that repair work has been slighted to quite a degree this year.

Prices are as follows: Standard railway spikes, 4½ × 9/16 in. and larger, are 1.50 to 1.60 cts. per lb. Boat spikes and small railway spikes are 1.60 to 1.65 cts. Track bolts with square nuts are 2.40 to 2.50 cts. per lb., and angle bars, 1.50 to 1.65 cts. per lb. in Chicago and Pittsburg.

STRUCTURAL SHAPES.—The volume of business placed in structural shapes during September was larger than that booked during August, but was small compared with some of the earlier months in the year. Quite a little railway business is in sight, but whether it will be closed or not is a difficult problem to answer. Considerable interest is taken in improvements for the Long Island Ry., some grade-crossing elimination work in Philadelphia by the Reading, and the New York subway contract. Steel makers abroad are figuring on the Quebec Bridge. Numerous small buildings are projected in the territory outside New York, but building in New York City is quiet. The Government will erect a post-office on the site of the Pennsylvania R. R. Terminal at 33d Street, and some of the Grand Central Station work is coming out every few weeks. The Erie is calling for a bridge near Paterson, which will require about 600 tons, and a lift bridge in Cleveland will call for 900 tons. Several grade-crossing elimination projects, involving much steel work, are under way in Ohio, but these will not be let for some time.

Prices are without change. The following quotations are named in cts. per lb., f. o. b. Pittsburg: I-beams and channels, 3 to 15-in., 1.40 to 1.45 cts.; over 15-in., 1.55 cts. H-beams, over 8-in., 1.65; angles, 3 to 6-in., inclusive, 1.50 cts; angles over 6-in., 1.55 cts.; zees, 3-in. and over, 1.50 cts.; angles, channels and zees under 3-in., 1.45 base and full extras; deck beams, and bulb angles 1.75 cts.; hand rail tees, checkered and corrugated plates, 2.75.

Chicago store prices in cents per lb. are

as follows: Angles, 3 to 6-in., 1.80 to 1.90 cts.; over 6-in., 1.90 to 2 cts.; I-beams and channels, 1.80 to 1.90 cts. In San Francisco prices from store continue without change at 2.70 cts. base.

OLD MATERIAL.—Prices are somewhat higher than they were a month ago, and the demand shows a decided improvement. Numerous inquiries are in the market from rolling mills, and heavy melting steel scrap is in exceptionaly good demand. Car wheels, however, are a drug on the market. A cargo of Panama scrap, amounting to 1,200 tons, was sold at $10.61 during the month. This is considered a good price. In New York and vicinity prices are as follows per gross ton: Re-rolling rails, $12 to $12.50; heavy melting steel scrap, $11.50 to $12; No. 1 yard wrought, $11.75 to $13.25; No. 1 railroad wrought, $13.50 to $14; pipes and flues, $11 to $11.50; cast borings, $6.50 to $7; machinery cast, broken up, $12.50 to $13; stove plate, $9.50 to $10.

In Chicago, the market is likewise firmer, and the railways report that slightly higher prices have been offered for their material. The following quotations are per gross ton: Re-rolling rails, $15.50 to $15.75; heavy melting steel scrap, $12.25 to $12.75; shoveling steel, $11.75 to $12.25. For such materials as are sold by the net ton prices are as follows: Miscellaneous railroad wrought, $11 to $12.50; machine shop turnings, $7 to $7.50; cast and mixed borings, $4.75 to $5.25; No. 1 cast scrap, $12.75 to $13.25; pipes and flues, $9.25 to $9.75; railroad malleable, $11.25 to $11.75; agricultural malleable, $10.50 to $11.

In the Pittsburg market some of the lists of scrap put out by the railways brought slightly higher offers than were made a month ago, ranging from 25 to 50 cts. a ton. Consumers in general are inquiring for scrap with more freedom. Quotations per gross ton are as follows: Re-rolling rails, $16 to $16.50; No. 1 foundry cast, $14 to $14.25; No. 2 foundry cast, $13 to $13.25; old grate bars, $12 to $12.25; car wheels, $14 to $14.25; cast borings, $8.25 to $8.50; machine shop turnings, $9.50 to $9.75; bundled steel scrap, $10.50 to $10.75.

CAST-IRON PIPE.—Prices are about $1 per ton lower in all markets. Rather more business has been taken in the line of cast-iron pipe than in several weeks, but, altogether, the market for pipe has been very satisfactory this year. The Portland, Me., job was let to a cast-iron pipe manufacturer, and went at the low price of $22.40 per ton, delivered. The amount called for was 22,500 tons. The American Cast Iron Pipe & Foundry Co. secured 1,200 tons from Miles City, Mont., and the leading interest took 500 tons for Russell, Kan. The Staten Island Water Co. is in the market for approximately 5,500 tons of pipe. Prices are as follows per net ton at the points named: In Birmingham, Ala., 4 to 6-in., $22 to $22.50; 8 to 12-in., $21 to $21.50; over 12-in., $20 to $20.50.

In Chicago, 4-in. is $27; 6 to 12-in., $26; 16-in. and larger, $25.

In New York, 6-in. is quoted at $23.50 to $24.

Gas pipe is held at $1 per ton advance in all markets.

Specials are sold at $50 to $60 per net ton.

PLATES.—Very little business has developed in the plate line. Manufacturers of cars are practically out of the market, and unless some new orders are soon forthcoming from the railways several steel car-making plants will be forced to close down. Shipbuilding work is very quiet in all parts of the country, although one order has been taken for 2,200 tons of plates for a car ferry. There has been considerable talk regarding lower prices on steel products, and in many quarters the assertion has been made that plates can be had at less than $1.40 base. This has been denied in authoritative circles, and it is difficult to see where much business would be stimulated by reducing prices now.

Prices are unchanged as follows: f. o. b. mill, in cts. per lb., ¼-in. thick, 6¼ to 100 ins. wide, 1.40 to 1.45 cts.; ¼ to 3/16 in. thick, 1.50 to 1.55 cts.; 3/16 in. and thinner, including No. 8 gage, 1.55 to 1.65 cts.; Nos. 8, 9 and 10 gage, 1.70 to 1.75 cts.

In Chicago store prices are 1.85 to 1.95 cts.

STEEL CASTINGS.—Business is not at all active and some foundries are willing to make price concessions. Open hearth castings, weighing from 100 to 500 lbs., are 3½ to 5 cts. per lb. Crucible castings, weighing within the same limits, are 7½ to 9 cts. per lb.

RIVETS.—Prices have been cut 25 cts. per 100 lbs. Business is extremely light and the reduction in price brought no new orders.

Revised quotations are as follows: Structural rivets, ¾-in. and larger, 1.90 cts., base cone head boiler rivets, ¾-in. and larger, 2 cts., base; ⅝-in. and 11/16-in. take an advance of 15 cts., and ½-in. and 9/16-in. take an advance of 50 cts. Lengths shorter than 1-in. also take an advance of 50 cts. Terms are 30 days, net cash, f. o. b. mill.

PILING, SHEET STEEL.—Business is not as active as it was, but the demand for this form of piling is steadily increasing. The price of 1.60 cts. per lb. f. o. b. Pittsburg is still quoted by the leading manufacturers. All makers of piling are looking forward to the raising of the Maine in Havana harbor which may require much piling.

CASTINGS, GREY IRON.—While the total volume of business is not as large as a month ago, many jobbing foundries are now getting numerous orders. This is principally because consumers refused to make long time contracts earlier in the year and have been compelled to re-enter the market. General building castings are quiet, columns being sold at 1.75 to 2 cts. per lb., although some desirable orders can be placed as low as 1.65 cts. Stair work is 2 to 2.25 cts. per lb. Heavy footings, sewer work and manhole covers are 1.50 to 1.75 cts. per lb.

ROOFING, CORRUGATED.—The prices of sheets have been shaded and it is now possible to obtain corrugated sheets at $6 to $8 per ton less than earlier in the year. The demand is not at all active and the steel mills are making a more general canvass for business.

Quotations are as follows for 100 sq. ft. of roof surface: Carloads Pittsburg, No. 28 painted, $1.55 to $1.60; No. 28 galvanized, $2.80 to $2.85. From store, New York, No. 24 painted, $3.65; No. 24 galvanized, $4.60; No. 26 painted, $2.75; No. 26 galvanized, $3.80; No. 28 painted, $2.40; No. 28 galvanized, $3.55.

WIRE ROPE.—Prices are unchanged from last month. The discount to the larger trade being 42½ and 5% from list for galvanized, and 50 and 5% from list for bright. The net prices of bright wire rope are as follows:

Diameter, inches.	Price per foot — Cast steel.	Crucible steel.	Plow steel.
2¾	$1.05	$1.24	$1.46
2½	.85	1.05	1.22
2	.57	.65	.76
1¾	.44	.54	.64
1½	.32	.39	.45
1¼	.23	.28	.32
1	.15	.18	.21
¾	.10	.11	.13
⅝	.07	.09	.10
½	.06	.07	.07

SHEETS.—All of the independent mills are anxious to secure new business and, in many cases, are going after the trade with considerable price changes. The reduction amounts to $4 to $6 per ton. Some business was booked on the reduced prices and the leading interest is now operating about 81% of capacity. The prices of sheets are revised as follows:

	Cts. per lb. — Black.	Galvanized.
Nos. 15 & 16	1.90 to 1.95	2.50
Nos. 17 to 21	1.95 to 2.00	2.65
Nos. 22 & 24	2.00 to 2.05	2.85
Nos. 25 & 26	2.05 to 2.10	2.95 to 3.00
No. 27	2.10 to 2.15	3.05 to 3.10
No. 28	2.15 to 2.20	3.25 to 3.30
No. 29	2.20 to 2.25	3.40 to 3.45
No. 30	2.30 to 2.35	3.60 to 3.65

Store prices New York are as follows:

	Cts. per lb. — Black.	Galvanized.
No. 10	2.40	2.95
No. 12	2.40	
No. 14	2.45	
No. 16	2.55	3.05
Nos. 18 to 22	2.70	3.20
No. 24	2.75	3.30
No. 26	2.85	3.50
No. 27	2.95	3.65
No. 28	3.15	3.80
No. 30	3.35	4.25

FREIGHT RATES.—The freight rates, on finished steel products, from the Pittsburg district, including plates, structural shapes, merchant steel and iron bars, pipe, fittings, plain and galvanized wire, nails, rivets, spikes and bolts (in kegs), black sheets (except planished), chain, etc., are as follows, in cts. per 100 lbs.: Albany, 16; Buffalo 11; Boston, 18; Baltimore, 14½; Canandaigua, 13½; Cleveland 10; Columbus, 12; Cincinnati, 15; Chicago, 18; Harrisburg, 14½; Louisville, 18; New York, 16; Norfolk, 20; Philadelphia, 15; Rochester, 11½; Richmond, 20; Scranton, 15; St. Louis, 23; Washington, 14½.

MERCHANT PIPE.—While the mills have plenty of orders on their books for large sized pipe and there appears to be more of this work coming out there is a dearth of orders for small sizes of pipe. One inquiry is in the market for a natural gas pipe line from Shreveport, La., to St. Louis, but it is probable that nothing will be done this year. Prices are fairly firm and discounts ruling last month are repeated as follows: ¾ to 6-in. black, 8%; ¾ to 6-in., galvanized, 68%; 7 to 12-in. black, 72%; 7 to 12-in. galvanized, 57%. At these discounts the net prices of pipe per foot, are as follows:

	Steel Pipe in Cts. per ft. f. o. b. Mill. — Black.	Galvanized.
¾-inch	2.53	3.68
1 -inch	3.63	5.28
1¼-inch	4.95	7.20
1½-inch	5.94	8.64
2 -inch	7.92	11.52
2½-inch	12.67	18.30
3 -inch	16.61	24.16
4 -inch	23.76	34.56
5 -inch	32.90	46.30
6 -inch	42.36	60.16
7 -inch	65.80	101.05
8 -inch	70.00	107.50
9 -inch	95.20	146.20
10 -inch	112.00	172.00
11 -inch	126.00	193.50
12 -inch	137.20	210.70

BARS AND MERCHANT SHAPES.—Many consumers are ordering bars from store rather than buy large tonnage from the mill. Prices have held up and business is fairly active, although it has dropped off considerably during the last fortnight.

Prices from store New York are as follows:

	Cts. per lb.
1 to 1⅞-in. round and square	1.90
1½ to 4-in. × ⅜ to 1-in.	1.90
1½ to 4-in. × ¼ to 5/16-in.	2.10
Rods—⅝ and 11/16 round & square	2.10
Angles:	
3-in. × ¼-in. and larger	2.10
3-in. × 3/16-in. and ⅛-in.	2.35
1½ to 2½-in. × ⅛-in.	2.35
1½ to 2¾-in. × 3/16-in. & thicker	2.10
1 to 1¼ × 3/16-in.	2.20
⅞ × ⅛-in.	2.40
¾ × ⅛-in.	2.50
⅝ × ⅛-in.	3.55
½ × 3/32-in.	4.35
Tees:	
1-in.	2.65
1¼-in.	2.45
1½ × 2½ × ¼-in.	2.15
1½ × 2½ × 3/16-in.	2.35
3-in. and larger	2.15
Beams	2.10
Channels, 3-in. and larger	2.10
Bands—1½ to 6 × 3/16 to No. 8	2.35
Norway bars	3.60
Bessemer Machinery, Steel	1.90
Cast steel, base	7.00
Special cast steel, base	14.00 to 15.00

TIN-PLATE.—For the first time this year there is a noticeable falling off in the demand for tin plate. As far as coke plates are concerned this is largely on account of the partial failure of the Maryland tomato crop. The premium of 15 cts. per box quoted last month has entirely disappeared.

Terne plates or tin plates used for roofing purposes are sold by the box of 112 sheets. Store prices in New York, are without change at $8.50 per box for 20 × 28-in. I C plates with an 8-lb. coating; plates of the same size with a 15-lb. coating are $10.40; 20-lb. coating, $13 and 40-lb. coating, $16.50.

COKE.—The output of coke is less than any time this year, the reduction during the last month having been drastic, amounting to fully 15%. The weekly output is, according to the "Connellsville Courier," 300,000 tons in the upper and lower Connellsville region. Prices are easier and the best grades of furnace coke, running under 1% in sulphur, are sold at $1.75 to $1.80 per ton at oven on contracts running throughout the year. Coke for immediate shipment can be had at $1.60 to $1.65. Foundry coke is only slightly easier, the best grades of 72-hr. foundry being quoted at a reduction of 5 cts. per ton, at $2.10 to $2.25 for prompt and $2.25 to $2.50 for delivery throughout the year.

NAILS.—Stocks in the hands of jobbers and retailers are low and there has been quite a little buying for prompt shipment. Prices are without change, wire nails in Pittsburg being held at $1.75 base in carload lots to retailers with an advance of 10 cts. for less than carload lots. In New York wire nails are sold from store at $2 per keg. Cut nails are held at $1.65 per keg in carload lots Pittsburg, and $2 per keg from store New York. All of these prices are per 100 lbs.

WIRE.—Stocks held by jobbers are quite depleted as is shown by the numerous orders for small lots for immediate shipment. These orders, however, are the only ones being received, the general business at the mills being dull. The wire trade has, throughout the year, held up surprisingly well. Prices concessions are only nominal, amounting to 5 cts. per 100 lbs. New quotations on plain wire are as follows: Carloads, annealed, $1.50; galvanized, $1.80. Less than carload lots are held at an advance of 10 cts. per 100 lbs. over these prices. Barbed wire in carload lots is $1.70 for the painted and $2 for the galvanized. An advance of 10 cts. per 100 lbs. is also charged for less than carload lots. Prices named are per 100 lbs. at mill in the Pittsburg district.

SWEDISH STEEL.—The activity which was so apparent in the early months of the year has entirely disappeared. Contractors are only buying steel for nearby delivery and manufacturers of contractors' supplies are likewise in the market, in a limited way.

Prices are without change. Drill steel, either round, hexagonal or octagon, is 6 cts. per lb. for all sizes ⅝ to 2 ins.. For sizes 2⅛ to 3 ins. 7 cts. is quoted and 3⅛ to 4 ins., is 7½ cts.

Hollow drill rod is held at 12½ to 15 cts. for the imported.

Anvils of Swedish steel are held at 9 to 9½ cts. per lb. They weigh from 80 to 600 lbs.

SWITCH POINTS.—The following prices are named f. o. b. mill for switch points in lots of ten or more pair: For 60-lb. rail, 10-ft. points, $16.25; 15-ft. points, $2.50 for 70-lb. rail, 10-ft. points, $18; 15-ft. points, $25; for 80-lb. rail, 10-ft. points, $25.50; 15-ft. points, $27.75; for 90-lb. rail, 15-ft. points, $30.50; for 100-lb. rail, $33.50. All of the above are furnished with three rods, except the 10-ft. points for 60 or 70-lb. rail, which have only two.

LAG SCREWS.—Quotations are without change. Cone point lag screws are sold at a discount of 75 and 10% from list. Net prices are as follows:

	Net price per 100 — ¼-inch.	¾-inch.	1-inch.
3½-inch	$1.17	$2.40	$5.00
4 -inch	1.25	2.55	5.25
4½-inch	1.33	2.70	5.50
5 -inch	1.40	2.85	5.80
6 -inch	1.58	3.20	6.40
7 -inch	1.73	3.50	7.00
8 -inch	1.82	3.85	7.60
9 -inch	2.05	4.10	8.20
10 -inch	2.25	4.45	8.75
11 -inch	2.40	4.70	8.30
12 -inch	2.60	5.00	9.90

CHAIN.—The following quotations are named on chain. Prompt shipments can be made.

Prices are without change per 100 lbs. f. o. b. Pittsburg, as follows:

Sizes in inches.	Proof.	BB.	BBB.
3-16	$8.25	$9.50	$10.00
¼	5.70	6.95	7.45
5-16	4.70	5.95	6.45
⅜	4.15	5.40	5.90
7-16	3.85	5.10	5.60
½ and 9-16	3.65	4.90	5.40
⅝	3.55	4.80	5.30
¾	3.45	4.70	5.20
⅞	3.35	4.60	5.10
1	3.25	4.50	5.00
1¼ and 1⅛	3.35	4.60	5.10

Hand-Made Chain.

Size in inches.	BBB crane chain.	BBB crane, dredge hoisting or steam shovel hoisting chain.	Special "Warwick" crane, hoisting steam shovel hoisting and dredge hoisting chain.	Special "Trident" crane, steam shovel hoisting & dredge hoisting chain.
⅝	$7.95	$8.20	$9.15	$9.15
¾	7.15	7.45	8.45	8.45
⅞	7.67	6.90	7.95	....
1	6.15	6.40	7.45	....
1⅛	5.75	5.95	6.90	....
1¼	5.65	5.90	6.85	....
1⅜ to 1⅞	5.55	5.75	6.80	....

SPIRAL RIVETED PIPE.—Prices continue unchanged from the last report. The prices given below are f. o. b. factory, freight equalized, with New York City being figured at a discount of 50, 10 and [illegible] from list. They are for orders amounting [illegible] about $250. For large orders, of several [illegible]ads, prices are from 12½% to 20% cheap[illegible]

Diameter in ins.	*Thickness of steel, Birmingham wire gage.	Net price per 100 ft. With bolted joints complete. — Plain.	As[illegible]	Galvanized.
3	20	$21.80	[illegible]	$20.70
4	18	19.76	[illegible]	40.74
5	18	23.49	[illegible]	37.14
6	16	33.05	[illegible]	49.73
7	16	37.58	[illegible]	56.82
8	16	43.17	[illegible]	65.00
9	16	50.06	[illegible]	74.22
10	14	66.42	[illegible]	96.15
11	14	71.20	[illegible]	102.24
12	14	83.75	[illegible]	118.32
13	14	89.67	[illegible]	127.98
14	14	99.14	[illegible]	138.85
15	14	108.05	[illegible]	151.92
16	14	117.53	[illegible]	166.58
18	12	167.43	[illegible]	226.44
20	12	183.79	[illegible]	248.39
22	12	200.48	[illegible]	269.21
24	12	219.92	[illegible]	293.90
26	10	280.26	[illegible]	370.78
28	10	301.32	[illegible]	395.37
30	10	324.81	[illegible]	430.64

*Made in both lighter and heavier gages at corresponding differences in price.

BOLTS.—Prices are without change. The discount on common carriage bolts, to the retail trade and large consumers, is 70 and 7½% from list, on bolts ⅜ × 6 ins., and smaller. The lower price is 65 and 5% discount for larger and longer bolts. Net prices are as follows:

Length in inches.	Diameter in inches—Net price per 100. ⅜	½	¾
4	$0.74	$1.22	$2.80
5	0.83	1.36	3.15
6	0.92	1.52	3.50
7	1.22	1.65	3.75
8	1.34	1.80	4.25
9	1.45	1.95	4.50
10	1.55	2.20	4.75
12	1.75	2.40	5.25
14	1.90	2.70	5.90
15	2.05	2.85	6.25
18	2.40	3.25	7.20
20	2.60	3.50	7.75

FROGS.—For mill shipments, of ten or more, prices are as follows: Bolted frogs No. 7, for 60-lb. rail, $15; for 70-lb. rail, $16.50; for 80-lb. rail, $18; No. 8 frogs for 90-lb. rail, $21; for 100-lb. rail, $23. Plate frogs No. 7, riveted to ⅝-in. plate for 60-lb. rail, $18; for 70-lb. rail, $20; for 80-lb. rail, $21.50. No. 8 frogs bolted to a ¾-in. plate for 90-lb. rail are $25.50; for 100-lb. rail, $27.50.

REINFORCING MATERIALS.

TRIANGULAR MESH.—While there has been some diminution in the volume of business, the mills are still working full time and the only appreciable change is shown in the shipments being made. These can now be sent out ten days after specifications have been received, whereas earlier in the year it was from 10 to 12 weeks.

The following quotations are for the lots of the size named f. o. b. mill in the Pittsburg district:

Price per 100 sq. ft.

Style No.	Cross sec. area per ft. width.	Carload lots.	Less than Carloads and more than 10,000 sq. ft.
4	.102	$1.03	$1.25
5	.077	.82	.99
6	.058	.65	.78
7	.041	.50	.61
23	.170	1.73	2.08
24	.142	1.48	1.80
25	.124	1.32	1.60
26	.110	1.20	1.45
27	.085	.98	1.19
28	.066	.81	.98
29	.049	.67	.81
31	.261	2.55	3.08
32	.225	2.20	2.67
33	.196	1.96	2.38
34	.146	1.51	1.82
35	.109	1.20	1.45
36	.075	.89	1.07
38	.380	3.62	4.38
39	.325	3.12	3.77
40	.283	2.74	3.30
41	.208	2.08	2.52
42	.151	1.58	1.92
43	.101	1.13	1.36

This material is made in regular widths of 18, 22, 26, 30, 34, 38, 42, 46, 50, 54 and 58 ins. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

BARS, CONCRETE REINFORCING.—The demand for bars shows some improvement, but there is quite a little shading of prices. Steel bars are selling at 1.40 cts. at the mill Pittsburg. The demand for reinforcing bars, however, is better than for common bars, and the following quotations are based on a price of 1.45 cts. Pittsburg:

	Cts. per lb. — Plain.	*Deformed.
¾-inch and larger	1.45 to 1.55	1.50 to 1.60
⅝-inch	1.50 to 1.60	1.55 to 1.65
½-inch	1.55 to 1.65	1.60 to 1.70
⅜-inch	1.70 to 1.80	1.75 to 1.85
¼-inch	1.95 to 2.05	2.00 to 2.10

Bar from stock Pittsburg are usually cut to the required length without extra charge. Prices are as follows:

	Cts. per lb. — Plain.	*Deformed.
¾-inch and larger	1.65 to 1.70	1.75 to 1.85
⅝-inch	1.70 to 1.80	1.80 to 1.90
½-inch	1.75 to 1.85	1.85 to 1.95
⅜-inch	1.90 to 2.00	2.00 to 2.10
¼-inch	2.15 to 2.25	2.25 to 2.35

*The price of deformed bars varied according to the shape and some are held much higher than these prices.

Twisted bars are held at an advance of 10 to 25 cts. over plain bars.

The base price on plain bars from store, Chicago, is 2 to 2.10 cts.

INTERLOCKING PLATES.—For interlocking steel plates, of 24 gage black steel f. o. b. mill central Ohio, the following prices are named:

Length	Per 100 sq. ft. Weight.	Price Flat Sheets.
Under 4 ft.	100 lbs.	$11.00
4 to 6 ft.	160 lbs.	10.00
6 to 8 ft.	160 lbs.	9.50
8 to 10 ft.	160 lbs.	9.00
10 ft.	160 lbs.	8.50

Curved sheets are held at an advance of $1 per 100 sq. ft. over flat.

For a desirable order prices might be shaded about 10%.

EXPANDED METAL.—Prices continue steady. The following table of prices are for small lots from the warehouse, either New York or Pittsburg. Material concessions, however, will be made for large orders.

Mesh. Ins.	Gage (Stubs)	Section in sq. in. per ft. width.	Weight, in lbs., per sq. ft.	Size of Standard Sheets in ft.	Price per sq. ft. f.o.b. New York.
½	18	.209	.74	8 × 3 or 6 ft.	5.5
¾	13	.225	.80	6 × 8 or 12 ft.	6.2
1½	13	.207	.70	4 × 8 or 12 ft.	5.5
2	12	.166	.56	5 × 8 or 12 ft.	4.8
3	16	.083	.28	6 × 8 or 12 ft.	2.4
3	10	.148	.50	5.25 × 8 or 12 ft.	2.6
3	10	.178	.60	6 × 8 or 12 ft.	2.8
3	10	.267	.90	4 × 8 or 12 ft.	3.8
3	10	.358	1.20	6 × 8 or 12 ft.	5.
3	6	.400	1.38	3.5 × 8 or 12 ft.	6.2
3	6	.600	2.07	4.66 × 8 or 12 ft.	8.3
4	16	.093	.42	4.5 × 8 or 9 ft.	2.8
6	4	.245	.84	5 × 8 or 12 ft.	3.7
6	4	.368	1.26	5 × 8 or 12 ft.	5.

EXPANDED LATH.—Prices are firm. The price for carload lots given below is f. o. b. mill Central Ohio:

Carload Lots. Price in cts. per sq. yd.

Gage.	Weight per sq. yds.	Black.	Painted.	Galvanized.
27	2¼ lbs.	11½	12¼	17½
26	2½ lbs.	12½	13¼	18½
25	2 lbs.	13½	14¼	19½
24	3.4 lbs.	14½	15¼	20½

Small Lots from New York, Store. Prices in cents per sq. yd.

Gage	Black	Painted	Galvanized
27	13	13¾	19
26	14	14¾	20
25	15	15¾	21
24	16	16¾	22

This lath is packed 9 sheets to the bundle.

DIAMOND LATH FROM STORE.

Designation.	Gage.	Weight per sq. yd.	Price. Per sq. yd. Black, cts.
A	24	4 lbs.	20
A Special	24	4 lbs.	18
B	27	2.9 lbs.	16½
B Special	27	2.9 lbs.	15
B B	27	2.33 lbs.	14
Square Twist	24	4 lbs.	20
Diamond No. 24	..	3.75 lbs.	20
" No. 24 Special	..	3 lbs.	16½
" No. 26	..	2.66 lbs.	16½
" No. 26 Special	..	2.1 lbs.	14
Square Twist No. 27	..	2.75 lbs.	14½

CLAY PRODUCTS.

SEWER PIPE.—Business is better, comparatively speaking, than it was a month ago. There is a fair run of orders for small sized pipe and some good contracts for larger sized pipe have been taken.

Discounts continue unchanged. Those applying to the "Eastern List" are as follows: 80% for sizes up to 24-in.; 78% for 27 and 30-in. and 73% for 33 and 36-in. At these discounts the net prices per ft. for carload lots f. o. b. factory, are as follows:

Size	Price	Size	Price
2 and 3-in.	$0.028	18-in.	$0.267
4-in.	.035	20-in.	.315
5-in.	.042	21-in.	.378
6-in.	.056	22-in.	.42
8-in.	.077	24-in.	.455
9-in.	.091	27-in.	.99
10-in.	.112	30-in.	1.20
12-in.	.14	33-in.	1.70
15-in.	.19	36-in.	1.89

HOLLOW WALL TILE.—The use of this material is apparently growing day by day. Manufacturers report that August was the best month for business they had ever had, notwithstanding a falling off in the volume of building work. The leading manufacturer of hollow wall tile is about to erect new plants in Canada and near Washington, D. C. to take care of the increasing trade. A notable improvement is likewise shown in the demand for hollow wall tile for small buildings.

Prices are very firm, and for hollow wall building tile, f. o. b. factory, Perth Amboy, N. J., are as follows:

Size.	Price per block, in cts.
4 × 12 × 12-in.	5.25
6 × 12 × 12-in.	6.6
8 × 12 × 12-in.	8.9
10 × 12 × 12-in.	10.5
12 × 12 × 12-in.	12.1

Fireproofing partition blocks are unchanged as follows:

Size.	Price per block, in cts.
2 × 12 × 12-in.	4.4
3 × 12 × 12-in.	4.4
4 × 12 × 12-in.	5.
6 × 12 × 12-in.	6.6
8 × 12 × 12-in.	8.8

These prices are for what would be considered small orders—approximately carload lots. For quantities which exceed $1,000 worth of material, concessions will be made.

DUCT TELEPHONE.—Some very good inquiries for telephone duct have been received for shipment to Argentine and other South American countries. The domestic business is also fair. Small lots are sold at 4½ to 5 cts. per duct ft. but considerable concessions are made for desirable orders.

ROOFING TILE.—Prices are steady, and continue without change. The best grade of promenade roofing tile in flat blocks for high grade roofs is sold at $20 per M. for run of kiln and $30 per M. for selected. A cheaper form of tile with a smooth face can be had at $10 to $12, but it is not suitable for roof gardens. These prices are for 9 × 9 blocks f. o. b. factory. It requiries 258 blocks to lay 100 sq. ft. of roof surface and, in consequence, the price per 100 sq. ft. of roof surface would be $4 to $5 for the smooth blocks; $7.82 for the run of kiln, and $10.73 for the selected.

Vitrified tile, unglazed, of the French or Spanish type, is sold, at approximately $8.50 per 100 sq. ft. of roof surface f. o. b. factory. Glass tiles are sold at 60 cts. each. It requires 183 of these for 100 sq. ft. of roofing.

FLUE LININGS.—Prices continue without change. This discount from list, f. o. b. mill, is 85%, delivered in New York; in small lots, they can be had at 78%. Based on a discount of 85% at the mill net prices are as follows:

Size	Weight in lbs.	Price per ft.
4½ × 8½-in.	14	$0.04½
4½ × 13-in.	20	.068
4½ × 18-in.	40	.15
6 × 12-in.	22	.075
7 × 7-in.	15	.053
8½ × 8½-in.	18	.068
8½ × 13-in.	28	.098
8½ × 18-in.	45	.135
12 × 16-in.	45	.15
13 × 13-in.	38	.128
13 × 18-in.	57	.18
14 × 16-in.	60	.165
16 × 16-in.	65	.24
16 × 20-in.	80	.30
18 × 20-in.	75	.30

MILL SUPPLIES.

SHAFTING.—Makers of shafting experienced the best demand they ever had early in the year chiefly from automobile makers. During the last three months the volume of business from this source has dropped off to a large degree, but there is quite a little business from other sources, as much as there was previous to 1907. Some orders have been taken at 55 and 5% discount, but the general figure for carload lots it 55% off the list. Small lots of less than carloads, but shipped from the mill, are sold at 50% discounts.

The following net prices per foot are based on the 50% discount: ¾-in., 4.15 cts.; 1-in., 7.30 cts.; 1¼-in., 11.50 cts.; 1½-in., 15 cts.; 1¾-in., 20.50 cts.; 2-in., 25.50 cts.; 2¼-in., 38.75 cts.; 2½-in., 41.75 cts.; 2¾-in., 50 cts.; 3-in., 60 cts.; 3½-in., 90 cts.; 4-in., $1.27¼; 4½-in., $1.78; 5-in., $2.35; 5½-in., $3; 6-in., $3.85.

CHAIN BELTING.—Business is active and considerable new work is coming out. Prices continue unchanged as follows:

From 3 HP. to 10 HP., 30-in. centers complete, with two sprockets, $7 to $8 per HP.; from 10 HP. to 25 HP., 36-in. centers complete, $5 to $6 per HP.; from 25 HP. to 100 HP., 60-in. centers complete, $4 to $5 per HP.; from 100 HP. to 500 HP., 72-in. centers complete, $3 to $4 per HP.

PACKING.—Prices continue without change. The following quotations are for small lots in original packages:

Asbestos wick and rope, 13 cts.; sheet rubber, 11 to 13 cts.; pure gum rubber, 40 to 45 cts.; red sheet, 40 to 50 cts. Cotton packing can be had at 16 to 25 cts.; jute at 3¼ to 3½ cts., and Russian at 9 to 10 cts.

GRAPHITE LUBRICANTS.—Prices continue without change as follows:

Engine flake graphite, 12 cts.; oiled graphite, 20 cts.; car box grease, 8 cts.; gear grease, for electric cars, 4¼ cts.; cup grease, 15 cts.; axle grease, 8½ cts.; automobile graphite grease, 16 cts.

Large consumers and jobbers can obtain considerable concessions from these figures.

BELTING.—Business is more active than it was a month ago and in many ways there is more vigor to the trade. While a good part of the belting now being sold is deferred purchases still there is some actual new business. Quotations are unchanged, the discount on rubber belting being 40% from list for the best grade; 40 and 10% for standard and 60 and 10% for competition. Leather belting is likewise without change at 55% discount for extra heavy; 60% heavy; 60 and 10% medium; 60, 10 and 10% light; 70% shoulder, and 70 and 10% for standard.

The following net prices per ft. of rubber belting are computed at the above discounts. The price of leather belting is, as stated, unchanged from last month, and the prices may be found on page 61 of issue Aug. 4.

Width, inches.	2-ply.	4-ply.	6-ply.	8-ply.
3	$0.16	$0.22	$0.33	....
4	.21	.30	.45	....
5	.26	.36	.55	....
6	.30	.44	.65	0.87
7	.36	.51	.75	1.01
8	.40	.57	.87	1.15
9	.46	.64	.96	1.30
10	.51	.72	1.01	1.44
12	.60	.86	1.30	1.70
14	.72	1.01	1.53	2.01
16	.83	1.17	1.76	2.35
18	.93	1.34	2.00	2.65
20	1.04	1.49	2.25	2.98
22	1.17	1.67	2.50	3.33
24	1.30	1.85	2.76	3.70
26	1.42	2.04	3.06	4.08
28	1.58	2.22	3.33	4.45
30	1.69	2.40	3.60	4.80
34	1.94	2.79	4.16	5.5[illegible]
38	2.22	3.15	4.70	6.30
42	2.46	3.50	5.30	7.00
46	2.75	3.88	5.80	7.72
50	3.02	4.25	6.40	8.50
56	3.40	4.80	7.20	9.60
60	3.67	5.20	7.80	10.40

HIGH SPEED STEEL.—The improvement noted in the volume of business last month has continued. This does not seem to come from any one class of consumers but is general. Prices are without change, most of the well known brands being obtainable at 50 to 60 cents.

LUBRICATING OILS.—Business is fairly satisfactory. Quotations continue without change the following figures being named for 5-bbl. lots.

	Cts. per gal.
*Cylinder, dark	20 to 27
*Cylinder, steam, refined	14 to 22
Neutral Oils, filtered:	
Stainless white, 32 to 34 gravity	28 to 29
Lemons, 33 to 34 gravity	17 to 19
Dark, 32 gravity	15 to 18
Crank Case oil	15 to 17

*Prices vary according to test.

COTTON WASTE.—From the quotations ruling for raw cotton it is evident that little can be expected in the way of lower prices for waste, for some time to come, at least. Baled waste in New York is 9 to 10 cts. per lb.

FIRE HOSE.—Prices of hose are unchanged. The standard grade of underwriter's cotton rubber-lined hose, 2⅝-in. diameter warranted, 350 lbs. pressure is sold, in 50-ft. lengths, complete with couplings, at 65 cts. per ft. Common hose, 2½-in. diameter, tested to 200 lbs. pressure, is 35 cts. per ft.

CHEMICALS.

Alcohol has advanced, otherwise the market shows no change. The following quotations are named for delivery in New York City for lots of fair size:

	Cts. per lb.
Nitric acid, 30°	3.87½ to 4.25
Nitric acid, 40°	4.50 to 4.87½
Sulphuric, 60°	0.90 to 1.00
Sulphuric, 66°	1.00 to 1.25
Sal Ammoniac, lump	9.25 to 9.75
Sal Ammoniac, granulated	5.87½ to 6.00
Sal Ammoniac, gray	6.00 to 6.25
Sulphur, roll	1.85 to 2.15
Sulphur, flour	2.00 to 2.40
Sulphur, flowers	2.20 to 2.60
	Per gallon.
Alcohol, grain, U. S. proof	$2.54 to $2.57
Alcohol, denatured, 5-bbl. lots	.41 to .42
Alcohol, denatured, ½ bbls	.46 to .47
Alcohol, wood, 95 to 97	.52 to .57
Alcohol, wood, purified	.80 to ..

PAVING MATERIALS.

ROAD OIL.—Business is quiet, the heavy consuming season of the year having passed. Prices continue unchanged, 30% asphaltum oil being quoted at 4 cts. per gal. Texico macadam asphalt, 90 to 95% is 11 cts. per gal., f. o. b. New York or Philadelphia; A or X Tarvia in bbls. is 8½ to 9½ cts. per gal.; B grade in bbls. is 7 to 8 cts. per gal.

GRANITE BLOCK.—The season just closed has been one of the most satisfactory for the sellers of granite block that they have ever experienced. Prices have been fair and the demand has been enormous. For the little business now ruling, quotations continue unchanged as follows: Cape Ann granite blocks, delivered in New York City, in the old style block, is $1.60 to $1.75 per sq. yd. Dressed block to lay with ¼-in. joint is $2 to $2.10 per sq. yd.

ASPHALTUM.—Prices are more or less nominal, but some low figures have been made for asphalt paving work. Trinidad is quoted at $25 per net ton. California asphaltum is $26 to $30 per net ton f. o. b. New York, and $16 to $19 at point of shipment.

PAVING BLOCKS, WOOD.—Prices are absolutely without change as follows: For long leaf yellow pine blocks having not less than 20 lbs. oil per cu. ft., $1.85 is quoted for 4-in. block; $2.05 for 3½-in. block and $2.25 for 4 in. block. All these prices are per sq. yd., f. o. b. New York.

VITRIFIED BRICK.—Quotations are more or less nominal in view of the light business under contract, but the season has been fairly satisfactory. Prices are unchanged at 55 to 70 cts. per sq. yd. at point of shipment.

LUMBER.

The market is very unsatisfactory. Whenever a large order is in sight there are many salesmen on the spot to take it. Price concessions are frequent. Freight allowances that formerly were unusual are now freely granted. The great trouble with the lumber market is that so many people believed that every backwood lot was a bonanza that they have been cutting lumber and holding it for the market. The good demand failed to materialize and consequently there is much material pressing on the market, which otherwise would have been left standing. Yellow pine sellers in the South are particularly anxious to secure business. Pennsylvania and Virginia hemlock is coming in freely and chestnut is almost a drug on the market.

LONG LEAF YELLOW PINE.—The principal demand is for long sticks. For yard deliveries and vicinity for material passed "merchantable" under the 1905 rules of the Association, prices are as follows:

Prices per Thousand in Yard, New York.

	Length: 20 ft. to base.	21 to 25 ft.	26 to 30 ft.	31 to 35 ft.
8 in. wide and under by 8 in. thick and under	$31	$32	$33	$34
10 in. wide by 10 in. thick and under	33	34	35	36
12 in. wide by 12 in. thick and under	36	37	38	39
14 in. wide by 14 in. thick and under	43	44	46	46
16 in. wide by 16 in. thick and under	45	46	47	48

For pieces longer than 35 ft. and less than 40 ft. add from $4 to $8 to base price.

NORTH CAROLINA PINE.—Prices are without change as follows: For pieces 20 ft. long and less, in car lots, New York, prices per thousand are as follows:

Size	Price	Size	Price
2 × 4-in.	$18	2 × 10-in.	$21
2 × 6-in.	18	2 × 12-in.	22
2 × 8-in.	18		

HEMLOCK.—The base price of Pennsylvania continues unchanged at $21 and West Virginia at $20.50. Quotations named a month ago are without change as follows:

Prices Per Thousand f. o. b. cars New York.

Size.	Length: 10 ft.	12 ft.	14 ft.	16 ft.
2 × 4-in.	$23.00	$21.00	$21.00	$23.00
2 × 6-in. to 2 × 10-in.	21.00	21.00	21.00	18 to 20
3 × 4-in. to 12 × 12-in.	21.50	21.50	22.00	19 to 21
1 × 8-in.	....	18.00	18.00	18.00
1 × 10-in. and 1 × 12-in.	....	18.50	18.50	18.50

CROSS TIES.—The Santa Fe has purchased a large consignment of Okia ties in the Hawaiian Islands. E. O. Faulkner, chief of the forestry department of that road has been investigating the subject for some time. It is noticeable that the railways have been buying cross ties in small lots, but for prompt shipment. While the individual orders were small, in the aggregate there have been a large number of ties disposed of. The following prices, quoted f. o. b. New York by G. S. Baxter Co., 15 William St., New York City, represent a decline of about 1 ct. each from last month.

	Cents each.
7 × 9-in. by 8 ft. 6 in.	80
6 × 9-in. by 8 ft.	74
6 × 8-in. by 8 ft.	69

Second-class, sound and square edge, are quoted as follows:

	Cents each.
7 × 9-in. by 8 ft. 6 in.	63
6 × 9-in. by 8 ft.	53
6 × 8-in. by 8 ft.	47

METALS.

COPPER.—Reports issued during September, by smelting interests, on the August output of refined copper indicate a more hopeful outlook from the sellers standpoint, than the market for the metal has reflected. Judged in the light of these reports, which have in some important instances shown from 10 to 15% decreases in production, strong reason is afforded for believing that the long talked of curtailment has begun to eventuate, and that material results in this direction will be clearly shown in the reports of the Copper Producers' Association, covering the balance of the year. The surplus copper held in first hands in the United States does not exceed three months normal consumptive demand and this of itself has not been the depressing influence on the price of the metal. Only when associated with the continuous expansion in production has it loomed up as a deterrent to the manufacturers and caused a policy of retrenchment in stocking up, or inspired hesitancy on the part of promoters of new enterprises in which both the raw and finished material were to be factors. Should the September report of the Copper Producers' Association throw a clear light on actual curtailment in production it would in all probability stimulate action buying by consumers and renewal of confidence, generally, among the copper metal trade.

There was considerable talk early in September of a material reduction in the domestic consumption, but later developments have changed this view to a somewhat more optimistic one. It is now believed that the large deliveries made into domestic consumption during August have been turned into finished products, and that slight if any recession has taken place in consumption. This view is well supported by reports from manufacturers.

Developments bearing on future consumption have been of an encouraging nature. The New York Central will electrify its line between Syracuse and Geneva, N. Y., a distance of 54 miles; the Great Northern has decided to electrify a section of 57 miles of its line on either side of the Cascade tunnel; the Boston & Maine will electrify its line through the Hoosac tunnel; the New Haven will electrify its main line between Boston and Providence, and the Delaware Lackawanna & Western will electrify a part of its system.

Prices have fluctuated but slightly during the month. Electrolytic copper advanced from 12.50 to 12.75 cts. in the local market and has again declined to 12.50 cts. The demand from consumers has been light. Lake sold at 13 cts. early in September, and at 12.62½ cts. latterly.

The exports of copper have been on a large scale which indicates good foreign consumption. During September they aggregated 31,603 tons.

PIG TIN.—The operations of the London syndicate in Straits tin continued throughout September and kept the market in almost a continuous state of excitement.

Starting the month at a slight recession from the high level, made in August, at 35.75 cts., the piece of spot tin advanced to 36.40 cts. on Sept. 7. This is the highest price at which spot tin has sold in three years. While the advance was undoubtedly closely connected with speculative factors, there is an element of real firmness in the advance, as is shown by the statistics of tin. Total shipments from the Straits were 4,225 tons, and total deliveries into consumption, including London, Holland, and the United States, were 5,778 tons. This deficit of 1,553 tons was more than made up by shipments from other sources than the Straits, but the latter has been and probably will be, for a long time the market making factor in the tin trade due to both quality, and the large percentage it forms of the total production. Shipments from the Straits for the nine months of 1910 have decreased 2,546 tons and the combined consumption of London, Holland and the United States has increased 5,327 tons during the same period. With the demand, both here and abroad, goods and shipments from the main source of

supply running light there is little to discourage further manipulation of the market. Domestic deliveries in September, amounted to 3,300 tons, and arrivals to 2,588 tons. Spot tin can be had to-day at 35 cts.

LEAD.—The leading interest continue to offer pig lead at the lowest price at which the metal can be obtained in the local market, namely 4.40 cts. The market has been inactive during the month and prices steady. White lead consumers continue very inactive buyers, but there is a fair demand from sheet and pipe makers. The independent interests are asking 4.42½ cts. for lead delivered in New York.

Sheet Lead.	Per lb.
Large lots	6.25 cts.
Small lots	6.75 cts.
Lead Pipe.	Per lb.
Large lots	5.75
Small lots	6.40

SPELTER.—There has been some increase in the demand for spelter, but not commensurate with the advance in prices. Prime western has advanced to 5.65 cts. in New York and even at that figure some producers are inclined to keep their product out of the market.

The most plausible view advanced regarding the continued strength of the market, is that producers, who have been operating their plants in the natural gas region and thus obtaining cheap fuel, are being forced to abandon that locality, by the failing gas supply, and re-establish in closer proximity to coal producing sources. This of necessity raises the cost of producing spelter, and having the market well in hand, the metal is being held out until prices advance to meet the increased cost.

MISCELLANEOUS METALS.—Small lots of metals and metal products can be obtained from jobbers' stores, New York, at the following prices:

	Per lb.
Bismuth	$2.25
Brass tubes, iron pipe sizes:	
½-in.	.19
¾ to 3-in.	.18
3½-in.	.19
4-in.	.20
Brass, sheets	.14¼
Brass, rods	.14¼
Solder, ½ and ½ guaranteed	.24
Zinc sheets	.08½
Manganese bronze rods	.16
Manganese bronze in crucible form	.14
Monel metal, ingot	.16

OLD METALS.—Due to an improved demand prices are higher. Miscellaneous lots of scrap metal, amounting to about a ton, can be sold to dealers in New York at about the following prices:

	Cts. per lb.
Copper, heavy and crucible	10.75 to 11.00
Copper, heavy and wire	10.50 to 10.75
Copper, light and bottoms	9.50 to 9.75
Brass, heavy	7.25 to 7.50
Brass, light	5.75 to 6.00
Heavy machine composition	9.50 to 9.75
Clean brass turnings	7.00 to 7.25
Composition turnings	8.25 to 8.50
Lead, heavy	... to 3.50
Lead, tea	... to 3.25
Zinc, scrap	... to 3.75

ROOFING COPPER.—There is an excellent demand for all kinds of copper sheets and prices are firm and unchanged at 18 cts.

GLASS.

WINDOW GLASS.—At a joint meeting of the Eastern and Western Associations of Plate Glass and Window Glass Jobbers held at Niagara Falls on Sept. 15th and 16th, it was decided to increase price schodules on window glass owing to announcement of an advance of 5% by the Window Glass Manufacturers on glass above the first three "brackets" stated to be necessary on account of the higher cost of production caused by the recent increase in wages. The Eastern jobbers decided in consequence to make the discount on the first three brackets of single thick 90 and 10%, and a discount of 89% on all other sizes of single and on all sizes of double thick, from the price list of October 1st, 1903, f. o. b. jobbing centers, with the usual higher differentials for Georgia and Florida. The price of window glass is without change from the last report at 90% discount from list for all sizes of single and double strength. This discount applies to the jobbers' list of October 1, 1903.

The net prices per box of 50 sq. ft., at the discount named, are as follows:

American Window Glass.

Size of Glass, Ins.	Single Thickness, Price per box, 50 sq. ft. A.	B.
6 × 8 to 10 × 15	$2.40	$2.20
11 × 14 }, 12 × 13 } to 14 × 20	2.52	2.40
10 × 26 to 16 × 24	2.70	2.52
18 × 22 }, 20 × 20 } to 20 × 30	2.87	2.64
15 × 36 to 24 × 30	2.96	2.70
26 × 28 to 24 × 36	3.14	2.79
26 × 34 }, 28 × 32 }, 30 × 30 } to 30 × 40	3.47	2.94
32 × 38 }, 34 × 36 } to 30 × 50	4.00	3.46
30 × 52 to 30 × 54	4.27	3.76

SKYLIGHT GLASS.—Business is fair. Prices are without change from the last report as follows:

Thickness, ins.	Price per sq. ft.
1/8	7 cts.
3/16	10 cts.
1/4	15 cts.

Wired skylight glass, ¼-in. thick, is 25 cts. per sq. ft.

VAULT LIGHTS.—Prices continue without change, contractors furnishing their own molds can obtain glass at from 4 to 5 cts. per lb. Bull's eyes, 3-in. in diameter, are 3 cts. each, and square lights, 3½ × 3½, are 5 to 6 cts. each.

PLATE GLASS.—There has not been as large a demand for plate glass as was noted earlier in the year still business is fairly satisfactory.

The price is unchanged from last month at 89% discount from list.

In the accompanying table the net price of polished plate glass is figured at this discount. These prices apply to the glass only, an extra charge being made for boxing or cutting to special sizes.

OILS AND PAINTS.

PETROLEUM PRODUCTS.—The demand is excellent for all kinds of oils and gasolene. The Standard Oil Co. quotes the prices of crude oil in bbls. at the wells as follows: Pennsylvania, Second Sand and Tiona, $1.30; Mercer black, is 10 cts. per bbl. cheaper at 87 cts.; Corner, 77 cts.; New Castle is also 10 cts. per bbl. cheaper at 84 cts.; Indiana, 77 cts.; Illinois, 60 cts.; Illinois heavy, below 30 gravity, 52 cts.; Kansas heavy, 30 cts.

In the New York market petroleum from tank wagon has declined sharply, being obtainable at 6 cts. per gal.

Texaco waterproofing cem[illegible] is $30 per ton in car lots, f. o. b. cars [illegible]w York or Philadelphia.

Asphaltum, for waterproofin[illegible] sold at $25 to $27 per net ton.

Glidden's graphite acid pr[illegible]oating is sold at $1.25 per gal. in bb[illegible] ½ bbls., and $1.40 per gal. in 5 ga[illegible]ns. These prices are f. o. b. Cleveland [illegible]r delivery from warehouse, New York [illegible]icago, St. Louis, Boston or Atlanta.

EXPLOSIVES.—Dynamite [illegible]he kind usually used by contractors is [illegible]roximately 11 to 13 cts. per lb. f. o. [illegible]factory in ton lots. Blasting powder, [illegible]sified as

NER PRICES OF POLISHED PLATE GLAS S IN DOLLARS.

Length, feet.	Width, Feet 1	1.5	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10
1	$0.24	$0.38	$0.50	$0.66	$0.86	$1.04	$1.18	$1.38	$1.52	$2.40	$2.86	$3.25	$3.7[illegible]	$4.17
1.5	....	.59	.86	1.10	1.42	2.10	2.40	2.76	3.08	3.75	4.38	5.00	5.7[illegible]	6.90
2	....	....	1.18	1.59	2.40	2.86	3.25	3.75	4.17	5.00	5.90	6.85	7.8[illegible]	8.90
2.5	....	....	....	2.55	3.08	3.68	4.20	4.70	5.30	6.40	7.60	8.90	10.1[illegible]	11.10
3	....	....	....	....	3.75	4.40	5.00	5.75	6.90	7.90	9.40	10.70	12.2[illegible]	13.60
3.5	....	....	....	....	....	5.20	5.90	6.75	7.60	9.40	11.10	12.70	14.4[illegible]	15.90
4	....	....	....	....	....	....	6.86	7.90	8.90	10.70	12.70	14.50	16.40	18.20
4.5	....	....	....	....	....	....	....	9.10	10.10	12.25	14.40	16.40	18.40	20.50
5	....	....	....	....	....	....	....	....	11.10	13.60	15.90	18.20	20.50	27.00
6	....	....	....	....	....	....	....	....	....	18.20	19.00	21.80	25.00	27.80
7	....	....	....	....	....	....	....	....	....	....	22.20	26.00	29.40	32.50
8	....	....	....	....	....	....	....	....	....	....	....	29.70	33.50	37.30
9	....	....	....	....	....	....	....	....	....	....	....	....	38.00	42.00
10	....	....	....	....	....	....	....	....	....	....	....	....	....	47.50
11	4.60	7.20	9.80	12.50	15.00	17.50	20.00	22.60	26.00	30.60	36.20	41.20	47.20	65.00
12	5.00	7.90	10.70	13.60	16.40	19.00	21.80	25.00	28.00	33.50	39.30	44.80	63.50	70.80
13	5.50	8.70	11.80	14.80	17.75	20.80	24.10	27.20	30.10	36.40	43.50	61.50	69.00	112.50
14	5.90	9.40	12.70	15.90	19.00	22.25	26.00	29.20	32.50	39.40	46.70	66.00	109.00	146.30
15	....	....	....	....	....	24.40	28.00	31.30	34.80	42.00	61.80	70.80	141.00	163.50
16	....	....	....	....	....	33.00	37.80	42.50	47.20	55.50	66.00	109.00	157.00	202.00
17	....	....	....	....	....	35.00	40.00	45.30	50.00	60.00	70.30	143.00	192.00	204.00
18	....	....	....	....	....	38.00	42.50	47.80	53.20	63.50	109.00	157.00	280.00	311.00

LINE CONSTRUCTION.

TELEGRAPH WIRE. — Prices continue without change as follows:

For lots of fair size, the wire measured in Birmingham wire gage, the prices in cts. per lb. are as follows: "Extra Best Best," Nos. 6 to 9, 4⅝ cts.; Nos. 10 and 11, 4½ cts.; Nos. 12, 4⅝ cts.; No. 14, 5⅛ cts.; "Best Best," Nos. 6 to 9, 3¼ cts.; Nos. 10 and 11, 3⅜ cts.; No. 12, 3½ cts.; No. 14, 4 cts. Actual freight is allowed from Trenton, N. J., where it does not exceed 25 cts. per 100 lbs.

POLES.—Cedar poles are quoted as follows by the R. D. Dowie Pole Co., 432 New York Block, Seattle, Wash. The price is f. o. b. loading point:

Length in ft.	Diameter at top. 8-in.	9-in.
30	$2.70	....
35	3.15	3.50
40	3.60	4.00
45	...	4.50
50	...	5.00
55	...	5.50
60	...	7.20
65	...	9.75
70	...	10.50
75	...	11.25
80	...	12.00

White cedar poles are quoted the Backus-Judd Lumber & Cooperage Co., Minneapolis, Minn., f. o. b. Rex, Mich., freight rate to Chicago 12 cts., as follows:

Length in feet.	Price each — Diameter at top. 5-in.	6-in.	7-in.
25	$0.65	$1.10	$1.50
30	...	1.60	3.75
35	...	4.00	5.00
40	...	5.25	7.00
45	...	7.25	9.50
50	...	10.00	11.00

Chestnut poles, f. o. b. Mechanicsville, N. Y., are quoted by T. C. Luther of that place as follows:

Length in feet.	Price each — Diameter at top. 5-in.	6-in.	7-in.
25	$1.50	$2.00	$2.75
30	2.50	2.75	3.25
35	2.75	3.25	4.00
40	3.25	4.00	5.50
45	4.00	5.50	7.50
50	5.50	7.50	9.50

FIR CROSS ARMS.—Prices are unchanged as follows:

Length. Size, 3¼ × 4¼-in.	Price per arm in cts. Pacific Coast.	Chicago.	New York.
3 ft., 2-pin	8	13½	15½
4 ft., 2-pin	11	18½	21
5 ft., 4-pin	16	26½	28½
6 ft., 4 and 6-pin	20½	31½	36
8 ft., 6 and 8-pin	28	43	48½
10 ft., 8, 10 and 12-pin	37	55½	67½

ALUMINUM.—The price of copper wire is so low that it is difficult to sell aluminum in competition with it. The price of wire is unchanged on a basis of 31 cts.

INSULATORS.—Prices are without change Glass insulators in lots of more than 1,000 and less than 10,000 are sold at the following prices per 1,000: Double petticoat, 20 oz., $33; Western Union, $30.25; No. 2 cable, $53.90; No. 4 cable, $210; Muncie type, 7-in., $236.50; No. 3 triple petticoat, 4½-in., $90.75.

COPPER WIRE.—The mills are working on old orders, but new business is light. There has not been any large amount of new construction calling for wire, still the volume of business has been between 50 and 75% of the high record. No. 8 wire is selling at 14 cts. per lb. base.

Auto naphtha and stove gasoline is unchanged in price at 14¾ cts.

Fuel oil is slightly easier at 90 cts. to $1 per bbl.

LINSEED OIL.—Prices of linseed oil have advanced beyond all expectations. As high as $1 a gallon has been demanded by the crushers, but prices have since declined slightly and oil can be had at 95 cts. The Government report on the crop of flaxseed gives the crop conditions at less than 50%, something unheard of. Flaxseed is now selling in Duluth at $2.34 to $2.42 per bushel. No relief is expected from the high prices before another crop matures.

SPIRITS TURPENTINE.—The market has advanced sharply and turpentine is now selling at 76 cts. per gal. in 5-bbl. lots. The shortage of supply is given as the reason for this unusual price.

PAINTS.—The prices of paints, particularly ready mixed paints, have advanced rapidly. It is almost a criterion that if prices have not advanced, some adulterant must be used, for the high price of linseed oil precludes any manufacturer selling paint at last year's figure. With all this, the demand is fair. Consumers realize the present price is due to a crop failure and therefore painting must be done or buildings and structures allowed to deteriorate.

Prices of white lead in oil are ¼ ct. higher. For lots of 500 lbs. or over, in 100 to 250 and 500-lb. kegs, 7½ cts. per lb. is quoted; in 25 and 50-lb. kegs, 7¾ cts. is quoted. Red lead and litharge in bbls., half bbls. and 100-lb. kegs is 8 cts. per lb.

Graphite paint is moving in good volume. but prices are from 10 to 20 cts. per gallon higher. Best grades of graphite paint in linseed oil can be purchased at $1.40 per gal.

Hydrex preservative paint is 75 cts. per gal. in bbl. lots New York City.

Colors in oil are quoted at the following prices per lb.: Lamp black, 12 to 14 cts.; Chinese blue, 36 to 46 cts.; Prussian blue, 32 to 36 cts.; Van Dyke brown, 11 to 14 cts.; Chrome green, 12 to 16 cts.; Raw or Burnt Sienna, 12 to 15 cts.; Raw or Burn Umber, 11 to 14 cts.

MISCELLANEOUS.

PINE TAR.—Price of tar has again advanced. This is the fourth successive advance in as many months. Kiln is quoted at $7.25 to $7.50 and retort at $6.75 to $7.25. These prices are for bbls. of 480 lbs.

ROPE.—The demand is fair and quotations are steady and unchanged as follows: Pure Manila, 9 to 9½ cts.; second grade, 8½ to 9 cts.; competitive grades, 8 to 8½ cts. per lb. Pure Sisal is 7¼ to 7½ cts. for the highest grades, and 6¼ to 6¾ cts. for less desirable grades. Jute rope in commercial sizes is 5½ to 6 cts. per lb.

ROOFING SLATE.—The prices of roofing slate are unchanged from last month as follows; the quotations are per "square," or one hundred sq. ft. of roof surface in carload lots of the size in most general use, f. o. b. quarry stations:

	Per 100 sq. ft.
Vermont, sea green	$4.00 to $4.50
Pennsylvania, Bangor Ribbon	4.00 to 4.50
Maine, Brownsville No. 1	6.00 to 7.75
Maine, Brownsville No. 2	5.60 to 6.00
Red	10.50 to 12.25
Unfading green	4.50 to 5.00
Genuine Bangor	4.50 to 6.00
Pen Argyle	4.00 to 4.50

OAKUM.—Prices of Oakum continue unchanged. The best grades are selling at 6¼ cts. U. S. Navy, 5¾ cts., and plumbers' oakum at 2¼ cts.

WATERPROOFING.—The prices for carload lots, f. o. b. cars New York, are as follows: Hydrex waterproofing felt, $1.25 per 100 sq. ft.; Hydrex compound "A," 26 cts. per gal.; Hydrex compound "B," 18 cts. per gal.

"soda" grade, is sold at $1.20 to $1.40 per keg or 25 lbs. in lots of 10,000 lbs. The following prices prevail on Trojan in carload lots, minimum 24,000 lbs., f. o. b. Pacific Coast points; No. 1, 13½ cts.; No. 2, 10½ cts.; No. 3, 10 cts. They have a disruptive force equivalent to 60%, 40% and 30% of nitro-glycerine.

Exploders, per hundred, are sold at the following prices: 4 ft. $3.60; 6 ft., $4.10; 8 ft., $4.60; 10 ft., $5.10; 12 ft., $5.60; 16 ft., $6.60; 20 ft., $7.50; 24 ft., $9.40; 30 ft., $12; 36 ft., $14.60.

Caps in lots of 10,000 are $7 to $8 per thousand.

Blasting machines for 10 holes are $12; 25 holes, $20; 50 holes, $40; 100 holes, $60.

RUBBER.—Continued weakness in the rubber market has forced prices steadily down since the opening of the month. The present prices represent a reduction of nearly 40% compared with the high figures of the year. Up-River Para fine can now be had at $1.50 to $1.55, compared with $1.90 last month. Up-River Para coarse is now obtainable at $1.10 to $1.15. Guayule is now selling at 90 cts., the same price as last month. Cancho ball, however has declined sharply, being quoted at $1.05, compared with $1.40 last month.

PAPER.—Prices are without change from last month, as follows:

Tarred Paper:	Per roll of 108 sq. ft.
Standard 2-ply, 40 lbs.	$0.45
Eextra heavy, 2-ply, 45 lbs.	.55
Standard 3-ply, 60 lbs.	.65
Extra heavy, 3-ply, 70 lbs.	.75

Rosin Sized Sheathing:	Per roll of 500 sq. ft.
Light, 35 lbs.	$0.38
Medium, 30 lbs.	.45
Heavy, 40 lbs.	.60

ROOFING CEMENT.—Prices are unchanged at $25 per ton for Texaco.

LIGHTERAGE LIMITS.—The free delivery or "Lighterage Limits" in New York City are as follows: In Manhattan, from a point opposite the Fort Lee ferry, south along the Hudson River around the Battery and north along the East and Harlem Rivers to the Jerome Ave. Bridge at 155th St. In New Jersey, south from Fort Lee ferry to Bayonne City; points on the north and east shore of Staten Island, between Bridge Creek (Arlington) and Clifton, both inclusive, and including Elm Park, Eristina and Shooters Island. In Brooklyn from 69th St., Bay Ridge, north to Port Cove, Astoria, Long Island City.

ASBESTOS.—Asbestos building felt and sheathing in less than ton lots is 3½ cts. per lb. for the light, weighing from 6 to 30 lbs. per 100 sq. ft.: 4 cts. per lb. is charged for the heavy, weighing from [illegible] to 56 lbs. per 100 sq.ft.

Millboard is made in standard sheets, 40 × 40 ins., and 41 × 4 ins. It varies in thickness from 1-32 to ½-in. and in weight from 2 to 27 lbs. per sheet. The net price in 100 lb. lots is 5 cts. per lb.

Transite, asbestos wood, used for fireproofing, ventilators and smoke stacks, comes in standard sheets, 36 × 48 ins., 42 × 48 ins., and 42 × 96 ins. The prices f. o. b. factory, Nassau, N. H., are as follows:

Thickness.	Weight.	Price.
⅛-inch	[illegible] lb.	$0.08
3/16-inch	[illegible] lbs.	.12
¼-inch	[illegible] lbs.	.16
5/16-inch	[illegible] lbs.	.20
⅜-inch	[illegible] lbs.	.28
7/16-inch	[illegible] lbs.	.28
½-inch	[illegible] lbs.	.32
9/16-inch	[illegible] lbs.	.36
⅝-inch	[illegible] lbs.	.40
¾-inch	[illegible] lbs.	.44
⅞-inch	[illegible] lbs.	.48
1 inch	[illegible] lbs.	.52
1⅛ inches	[illegible] lbs.	.56
1½ inches	[illegible] lbs.	.64
1¾ inches	[illegible] lbs.	.72
2 inches	[illegible] lbs.	.80

U. S. POSSESSIONS.

POST-OFFICE, COURT-HOUSE. — Porto Rico.—Bids are asked by James Knox Taylor, Supv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 22, for the construction complete (except elevators), of the U. S. post-office and court-house at San Juan, P. R.

BREAKWATERS.—Hawaii.—Bids are asked by Maj. E. Eveleth Winslow, Corps Engrs., U. S. A., Honolulu, T. H., until 11 a. m., Oct. 14, for breakwater construction at Hilo Harbor, Hawaii, and Kahului Harbor, Maui, T. H.

SUPPLIES.—Panama.—Bids are asked by Capt. F. C. Boggs, Corps Engrs., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., until 10.30 a. m., Oct. 27, for lumber, steel cable, washer cutting machine, portable electric grinder machine and hand taps, sellers and pipe hods, reamers, steel sockets, twist drills, chucks, punches, dies, rivet sets, vaseline, etc. Circular No. 608.

Bids are asked by Capt. F. C. Boggs, Corps Engineers, U. S. A., General Purchasing Officer, Isthmian Canal Comn., until Oct. 11, for condenser, motor-driven engine lathe, valve reseating machine, rivet sets, machine bits, cold-shuts for steam shovels, manganese steel plates, etc., Circular No. 606.

FOREIGN CONTRACTS.

(To insure prompt attention, letters on consular business should be addressed to The American Consul at ———, ———. Such letters are opened and attended to by whoever may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office, the matter may wholly escape attention.)

ELECTRIC RAILWAY.—Spain.—A notice has been issued by the Ministerio de Fomento granting the Compania del Tranvia de Bilbao a concession for the construction and working of an electric tramway in Bilbao.

ELECTRIC RAILWAY.—Austria-Hungary.—The communal authorities of Smichow have decided to proceed with the construction of an electric railway to Neu-Smichow and to the Malvazinka-Friedhof. The cost of the work is estimated at $200,000.

RAILWAY.—Brazil.—A decree has been issued approving the plans, submitted by the State of S. Paulo, for the construction of an extension of the Ferro Funilense Railway, from Arthur Nogueira to the banks of the Mogy-Guassu River. The railway belongs to the State of S. Paulo.

RAILWAY SUPPLIES.—New Zealand.—Bids will be received by the General Manager, New Zealand Railways, Wellington, N. Z., until noon, on Oct. 31, for the supply and delivery of supplies from April 1, 1911, to March 31, 1914, at Auckland, Wellington, Christchurch, Dunedin, Invercargill, Greymouth and Westport.

COPPER MINE.—Turkey.—Bids will be received by the Ministry of Agriculture, Mines and Forests, Constantinople, until Feb. 13, 1911, for a 99-year concession for working a copper mine at Kara Dagh, in the vilayet of Brusa. The concession will be given to the bidder who undertakes to pay the highest royalties. A deposit of $225 is required with each bid.

RIVER IMPROVEMENT.—Argentina.—The Ministry of Public Works has approved the plans submitted by the "Oficina Hidrografica," for the improvement of the River Rosario. The work will include dredging operations, the construction of breakwaters, and also a mole in Rosario Harbor, on the north side of the Rio de la Plata. The cost of the work is estimated at $75,000.

SUBMARINE CABLE. — French Congo.—Bids will be received until Oct. 14 at the Bureau de l'Ingenieur Chef des Etudes, Ministere des Colonies, Rue Oudinot 27, Paris, for supplying and laying a submarine cable between Libreville and Loango (Pointe Noire). To qualify tenders a provisional deposit of $10,000 will be required, to be increased by the successful bidder to $20,000.

RIVER IMPROVEMENT, ETC.—Spain.—A royal order has been issued approving the plans prepared by Don Eduardo Fungairino, Engr., for channeling the Manzanares River and draining its left bank, from the Puente de los Franceses to the Abronigal, at an estimated cost of 6,925,412 pesetas ($1,200,000). The Jefatura del Manzanares is instructed to have prepared immediately plans for draining the right bank of the river, so that this work may be carried out at the same time.

PORT WORKS.—Turkey.—Bids are asked until Dec. 17 by the Turkish Ministry of Public Works, Constantinople, for a concession for the construction and service of a port at Rodosto, on the Sea of Marmora. A deposit of $10,000 will be required for each bid, and the bidder will also be required to furnish proof of his financial and technical ability to carry out the concession. There is a project for connecting Dodosto with the Oriental Railway by a branch line to Muradli, but this has as yet taken no definite form.

FISHERY SUPPLIES, TRAWLERS, COLD STORAGE, ETC.—Brazil.—Julius von Sohsten, of Pernambuco, Brazil, and Mendes Lima & Co. have been granted the right for a period of 30 years of fishing at the port and in the neighborhood of Maceio. The concessionaires undertake to establish a suitable curing factory and cold storage for the preservation of the produce. Any machinery, steam trawlers, building material, etc., imported for use in fishing or curing and refrigerating fish will be admitted free of duty.

DRY DOCK.—Australia.—The Secretary of Public Works, State of Victoria, Australia, at Melbourne, advises us regarding the proposed construction of a new dry dock in Melbourne, "I have to state that complete plans of a new dock 800 ft. long, 110 ft. wide at entrance, with a depth of 32 ft., on sill at low water, with full equipment, have been prepared. The usual method in this State of executing such works is by contract on tenders publicly invited. This latter action has, however, not yet been taken and is yet a matter for consideration by the Government."

RAILWAY.—Spain.—A notice has been published to the effect that the Compania de los Ferrocarriles Suburbanos de Malaga (The Suburban Ry. Co. of Malaga) has lodged an application with the Direccion General de Obras Publicas, Madrid, for a concession for the construction and working of a secondary railway from Torre del Mar to Periana via Velez Malaga. The cost of construction is estimated at about $1,110,000.

According to a further notice, Don Rafael Malato Juste has applied for a concession for the construction and working of a secondary railway from Caspe to Alcaniz.

PORT WORKS.—Bulgaria.—The port of Varna, as it exists at present, was completed in 1906. It provides safe anchorage in all weathers for vessels of the largest tonnage frequenting the Black Sea. The total length of quay space available for large ocean-going vessels is 825 yds., with a depth of water alongside of 26 ft. The port authorities have now decided to put into execution a part of the dock extension scheme formulated in 1906. This scheme provides for a line of quays extending from the end of the present quays to Lake Devna. The work it is proposed to carry out at present will provide about 1,367 yds. of additional quay space for large shipping.

RAILWAY EQUIPMENT.—Norway.—Owing to the increase in iron ore traffic on the Ofoten Railway, it has been decided to incur expenditure for various improvements and purchases connected with the railway to the amount of about $200,000. The following are stated to be among the chief items of expenditure contemplated: Extension of locomotive works, etc., about $40,000; three large locomotives, about $60,000; trucks, about $12,000; new crossing station, about $42,000; improvement and extension of existing stations, about $20,000. Calls for bids for supplies to the Norwegian State Railways are issued by the State Railways Administration in Christiania. Application for further information on this subject should therefore be addressed to Christiania.

WATER AND ELECTRIC LIGHT SYSTEMS.—Egypt.—Bids are invited by the Ministry of the Interior for the supply and installation of machinery, etc., required for the establishment of water supply and electric light systems in the town of Beni-Souef. Bids, on stamped paper and enclosed in two envelopes, the inner marked "Installation d'eau et d'eclairage electrique a Beni-Souef —Offre pour la partie electrique et mechanique," and the outer addressed to "M. le Directeur de la Section des Municipalities et Commissions Locales, Ministere de l'Interieur," Cairo, will be received until noon, Oct. 31. A deposit equal to 2% of the value of the offer is required for each tender. The Egyptian Ministry of the Interior requires contractors to have a responsible agent in Egypt.

RECLAMATION, BRIDGE AND RAILWAY WORK.—Ceylon.—According to the report of the Ceylon Chamber of Commerce for the first half of 1910, a scheme has been prepared for the improvement of the Colombo Lake at a cost of $1,460,000. It is proposed to complete the more imporant zone of reclamation lying to the immediate south of the city of Colombo, at a cost of $835,000, by the end of 1914, leaving the rest of the scheme to be carried out when the public demand for additional accommodation warrants it. The following items are included in the works to be executed: A canal from the harbor to the lake, with locks; reclamation of the north end of the Eastern Lake and the north end of Galle Face Lake; walls to reclaimed land, factory slip, lake-side and canal basins; overflow and flood water channel, Galle Face; San Sebastian Canal locks and pumps; bridge over the entrance to lake-side basin; canal between East and Galle Face Lakes; roads, etc. It is proposed to devote a further sum of $123,000 to railway extension works.

RESERVOIR AND CANAL WORKS.—India.—Arrangements are being made to begin work on the construction of the Tendula reservoir and canal in the Central Provinces. There will really be two reservoirs, one on the Sookha and the other on the Tendula River, connected by a conduit excavated through an intervening spur in which will be situated the waste weir and spill channel for both reservoirs. The reservoirs, the combined capacity of which will be 9,350 million cubic feet, will be formed by the construction of two earthern dams, one, across the Sooka nala, 8,300 ft. in length, and the other, across the Tendula nala, 6,350 ft. in length. The maximum height of the dams from foundation to crest is to be 110 ft., and the greatest depth of water in the reservoirs will be about 70 ft. The connecting conduit will be 4,600 ft. in length and 12 ft. wide at the bottom. The distribution system will consist of a main canal 37 miles long, the Sigma branch 24 miles long, and various distributaries of a total length of 203 miles. The estimated cost of the whole project is about $3,350,000. Inquiries should be addressed to Calcutta, India.

IRRIGATION CONCESSION. — Russian Turkestan.—A report has been published in a St. Petersburg paper, on the question of concessions for irrigation works in Turkestan. It appears that, in consequence of the growing interest in Russian and foreign business circles in irrigation schemes in Turkestan, a great many applications for concessions have reached the local authorities of late, so that it has become necessary to formulate rules for their guidance in considering such applications. On May 21 last regulations were issued jointly by the Agricultural authorities, the Minister of War and the Governor-General of Turkestan, providing, among other things, that powers to foreigners to carry out surveying operations in connection with irrigation works shall be issued under the joint authority of the Agricultural Authorities and the Minister of War. The concessions will be granted for not more than two years. Applicants must state the place at which it is proposed to carry on the work, the object aimed at, and who is to bear the expense. Concessionaires may be required to lodge a deposit as a guarantee against any damage or loss which may be caused to private property during operations. The authorities will accept no liability in case the investigations should prove abortive.

EXHIBITORS.—England.—The Ninth International Motor Exhibition is to be held at Olympia from Nov. 4 to Nov. 12. Information respecting the exhibition may be obtained on application to the Exhibition manager, Society of Motor Manufacturers and Traders, Ltd., Maxwell House, Arundel St., Strand, London, W. C.

Austria-Hungary.—The International Exhibition of Iron and Metal Wares and Machinery is to be held at Budapest in May, 1911. Applications must be sent in by intending exhibitors not later than Nov. 30. Half of the charges for space must be paid on application, and the other half before May 1, 1911. A reduction of 50% on the usual rates will be allowed on the carriage over the Hungarian States Railways of articles intended for the exhibition. Further particulars, prospectuses and application forms may be obtained on application to the "Ausstellungsbureau, Gyaruteza 38," Budapest.

Russia.—The International Exhibition for Demonstrating the Application of Electricity to Railways, is to be held at St. Petersburg from April 15 to July 15, 1911. Applications for space will be received up to Feb. 15 by the President of the Organizing Committee of the Exhibition, N. A. Sitenko, 24 Sadovaia, St. Petersburg.

RAILWAY.—The concession of the Uruguayan section of the Pan-American Railway was granted during the year 1909, to the Corporation Trust Co., Portland, Me., it is stated. The proposed line is to run from the Port of Colonia on the Uruguay River to the borders of a small river named on the frontier of Brazil. The line will practically cross the Uruguayan Republic from west to east, passing through six important departments. The length of railway to be constructed is 342 miles, the gage is 1.44 metres, similar to that of the British railways in Uruguay. The concession is granted for a period of 90 years, and a minimum interest of 3½% is guaranteed during the first 35 years on a capital agreed at the cost of construction of $27,500 per kilometer of line. On the first section of the line from Colonia to Trinidad, however, about one-third of the length of the whole line, no guarantee is given, but it is considered that on the remaining two-thirds will cover this section. The plans for construction were lodged with the Department of National Engineers on July 16, and it announced that when once they are finally approved work will be begun immediately. Charles Bright has been the projector and prime mover in obtaining this concession. The legal representatives of the company in Monte Video are B. Caravia & Co., Calle Rincon 74, and the capitalists connected with the scheme are Americans.

EXAMINATIONS.

ELECTRICAL ASSISTANT. — Washington, D. C.—The U. S. Civil Service Commission announces an examination on Nov. 9, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Electrical Assistant in any branch of the service. Age limit, 20 years. Application form 1312. Applications must be filed prior to closing hour on Oct. 29.

TESTING ENGINEER.—Seattle, Wash.—The U. S. Civil Service Commission announces an examination on Nov. 9, to secure eligibles from which to make certification to fill a vacancy in the position of Engineer in Timber Tests, at $900 a year, Forest Service, Seattle, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. Age limit, 20 years. Application form 1312. Applications must be filed prior to closing hour on Oct. 29.

ASSISTANT SUPERINTENDENT.—McNeil Island, Wash.—The U. S. Civil Service Commission announces an examination on Nov. 9, to secure eligibles from which to make certification to fill a vacancy in the position of Superintendent of Construction, U. S. Penitentiary, McNeil Island, at $5 a day, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. Age limit, 20 years. Application form 1312.

PHYSICAL LABORATORY AID.—Pittsburg, Pa.—The U. S. Civil Service Commission announces an examination on Nov. 9, to secure eligibles from which to make certification to fill a vacancy in the position of Physical Laboratory Aid, Bureau of Mines, Pittsburg, at a salary of from $600 to $960 a year and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. Applicants must have reached their 18th, but not their 25th birthday, on the date of the examination. Application form 1312. Applications must be filed prior to closing hour on Sept. 29.

INDUSTRIAL NOTES.

THE BRUCE-MACBETH ENGINE CO., Cleveland, has opened a branch office at 1537 Oliver Bldg., Pittsburg, in charge of Mr. W. N. Richey, as local manager.

A. E. BORIE has resigned from the New Jersey Zinc Co. to accept a Vice-Presidency of the Taylor Iron & Steel Co., High Bridge, New Jersey. The New York office is 100 Broadway.

THE GLACIER METAL CO., 50 Church St., New York City, is placing on the market a ribbonized, plastic metallic packing for steam, air, water, gas and ammonia. This packing is manufactured from an alloy of white metal that can satisfactorily be made into fine shreds or ribbons. It is very pliable, will not score the rods, shows no corrosion when it comes in contact with acids. Only one size is required to be carried in stock as the rope can easily be made of the size required for packing the rods.

RUBBER PRODUCTION.—The annual statistics of the production, consumption, stocks and prices of rubber, as published by the Hecht Company, in the "Frankfurter Zeitung," are reported in the Daily Consular Reports of the Department of Commerce and Labor, Sept. 12. The total production of rubber throughout the world is given at 76,553 tons for the year ending June 30, 1910, as compared with 70,587 tons in the previous year. The world's consumption amounted to 76,026 tons for the year just ended and 71,989 tons for the previous year. These figures show an increase of 5,966 tons (8.4%) in the output and of only 4,037 tons (5.6% in consumption. It is noted that the deliveries to Europe in the year just ended increased to 44,336 tons (21.4%), while those to America decreased to 33,051 tons. The European stocks in consequence rose by 2,163 tons, while those in the United States decreased 89 tons. The harvest of rubber of Para quality amounted to 39,190 tons, compared with 38,075 tons for the previous year. The consumption of Para for the year just ended was 39,363 tons, compared with 38,249 tons for the previous year.

CURRENT CLOCKS and coasting registers used in studies made by Mr. H. S. Putnam on the elevated lines of the Interborough Rapid Transit Co., in New York City, were described in Engineering News, July 7, p. 11. These clocks have now been put on the market as a general coasting register by the Railway Improvement Co., 165 Broadway, New York. The inventor of the clock, Mr. Frank Hedley, Vice-President and General Manager of the Interborough Co., is President. It will be remembered that the object of this register is to compare the ability of motormen in operating cars or trains with a minimum consumption of power, and the studies by Mr. Putnam reported showed that high current consumption was caused by carelessness in manipulating the controller and air-brakes, especially in not coasting as was planned. The time mechanism of this recorder consists of a double-spring marine movement clock of rugged construction to withstand the heavy vibration and with a running capacity of six weeks per winding. The escapement wheel of the clock is released by a braking device controlled by an electro-magnet so arranged that the escapement wheel operates only when the car is coasting in such a way that the clock will start only after the power has been turned on and then turned off, and it will stop as soon as the brakes are applied. To release the escapement again, after the brakes have once been applied, the motorman must apply current and cut it off with the air-brakes off. Each motorman is designed to be furnished with a numbered key, and on starting his run he inserts this key in the register, recording his numeral on the paper ribbon within. At the conclusion of the trip the key is again inserted and the end of his run is registered.

TRADE PUBLICATIONS.

HOISTING MACHINERY.—Wellman-Seaver-Morgan Co., Cleveland, Ohio. Paper; 6 x 9 ins.; pp. 47; illustrated.

This is the latest catalog of this firm showing steam and electric hoists, particularly for use in mines.

STEAM VALVES.—Ohio Brass Co., Mansfield, Ohio. Catalog H. Paper; 6 x 9 ins.; pp. 56; illustrated.

The more common radiator valves, union elbows, globe, angle, check and pressure-regulating valves and steam specialties are described, with dimensions and prices.

TRAVELING CRANES.—Pawling & Harnischfeger Co., Milwaukee, Wis. Bulletin 18. Paper; 7½ x 10½ ins.; pp. 28; illustrated.

Here is a catalog of traveling cranes and eye-beam hoists manufactured by this company. Several typical installations are illustrated.

ADVERTISING.—Geo. H. Gibson Co., Tribune Bldg., New York. Paper; 4 x 9 ins.; pp. 16.

The work of this firm in investigating selling conditions, planning advertising, writing catalogs, pamphlets, circulars, trade articles, bulletins, manuals, etc., is set forth in this pamphlet.

FUEL ECONOMIZERS.—Green Fuel Economizer Co., Matteawan, N. Y. Bulletin 131. Paper; 6 x 9 ins.; pp. 16; illustrated.

This bulletin is devoted primarily to a discussion of the economy of fuel possible in paper mills by the installation of economizers between the boilers and stacks. The results obtained in several big paper mills are briefly presented, together with a description of the Green economizer construction.

corder, which is described.

HEATING SYSTEM.—York Engineering Co., York, Pa.; 9½ x 12½ ins.; pp. 14; illustrated.

What is known as the "York Thermo-Vacuum" system of heating is described in this elaborate and expensive pamphlet. Some peculiarities of equipment are all described and prominent installations are shown with artistic reproductions which are inserted on embossed pages. It is claimed that this system is adapted for the smallest homes as well as for the largest city buildings.

LIST OF CONTRACTS PENDING.

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
10- 8	**Storage tanks, Wash., D. C..(S.)**	**9-15**
10- 8	Sprinkler system, Boston, Mass. (S.)	9-22
10-10	***Dredging, Jacksonville, Fla (S)**	**9-15**
10-10	***Dredging, Charleston, S. C. (S)**	**9-15**
10-12	*Dredging, Chicago, Ill........(S.)	9-15
10-15	Dredging, New York........(S.)	9-22
10-15	Dredging, Boston, Mass.....(S.)	9-22
10-15	**Officers' quarters, Puget Sound, Wash..........(S.)**	**9-15**
10-17	Dredging, Boston, Mass.....(S.)	9-22
10-18	*Dredging, Baltimore, Md.....(S.)	9-22
10-18	*Dredging, Portland, Me.....(S.)	9-22
10-19	Lockers, Chicago, Ill.........(S.)	9-29
10-19	*Dredging, Boston, Mass. .....(S.)	9-22
10-19	*Embankment, Duluth, Minn..(S.)	9-22
10-22	Pier, Boston, Mass...........(S.)	9-29
10-22	**Drydock pumping equip, Wash., D. C. ....(S)**	**9-22**
10-22	Pier, Boston, Mass.........(S.)	9-29
10-27	*Tug, New York ....(S.)	9-29
10-29	*Stone dam, Cincinnati, Ohio..(S.)	9-29
11- 1	*Reservoir, Binghamton, N. Y. ....(P. & S.)	9-22
11- 5	Extension to dike, Villejo, Cal. ....(S.)	9-29
11- 5	Gas house remodeling, Mare Island, Cal. ....(S.)	9-15

Light, Heat and Power Plants.

Bids open.		Noted in issue of
10- 7	Elec. Crane, St. Louis, Mo.......	10- 6
10- 8	*Chimney, Washington, D. C....	10- 6
10- 8	Power-house, Perrysburg, N. Y..	10- 6
10-10	Boiler plant, Philadelphia, Pa...	9-29
10-10	Elec. equip., New York.........	9-29
10-10	Franchise, San Bernardino, Cal..	10- 6
10-11	Franchise, Los Angeles, Cal.....	9-29
10-11	Heating apparatus, Youngstown, Ohio	9-29
10-11	Elec. light plant, Yorktown, Sask.	9-29
10-11	Feeder cables, etc., Buffalo, N. Y.	10- 6
10-12	Elec. light plant, Pryor Creek, Okla	10- 6
10-15	Lighting, Walla Walla, Wash...	10- 6
10-17	Heating and vent., New York...	10- 6
10-19	*Light plant, Allentown, N. J....	9-29
10-20	Elec. light plant, Jackson, Ohio..	10- 6
10-27	Boilers, Lancaster, Ohio.........	10- 6
10-31	Elec. light system, Egypt (Foreign)	10- 6
11- 3	Elec. equipment, Canby, Minn..	9-29
11- 5	Gas house remodeling, Vallejo, Cal.	9-15
11- 3	*Heating and vent. system, etc., New York	10- 6

Bridges.

10- 7	Bridges, Davenport, Wash.......	9-29
10- 7	Bridges, Catskill, N. Y.........	10- 6
10- 7	Bridges, Smithport, Pa..........	10- 6
10- 8	Bridges, Indianapolis, Ind.......	9-29
10- 8	Bridges, Gothenburg, Neb.......	9-22
10- 8	Bridges, Detroit, Mich..........	10- 6
10-10	Bridges, Allentown, Pa..........	9-29
10-10	Bridges, Walsenburg, Colo.......	10- 6
10-10	Bridges, Los Angeles, Cal.......	10- 6
10-11	Bridges, Norristown, Pa.........	9-29
10-13	Bridges, N. Y., N. Y............	10- 6
10-14	Bridges, Cincinnati, Ohio........	9-29
10-14	Bridges, Noblesville, Ind........	10- 6
10-15	*Viaduct plans, St. Joseph, Mo...	9-22
10-19	Bridges, Wilkesbarre............	10- 6
10-20	Bridges, York, Pa..............	10- 6
10-21	Bridges, Upper Sandusky, Ohio..	10- 6
10-22	Bridges, Shelbyville, Ind........	10- 6
10-26	Bridges, Cleveland, Ohio........	10- 6
10-31	Bridge, Ukiah, Cal.............	9-29

Buildings.

10- 7	Fire-house, Soho, N. J.........	10- 6
10- 7	Engine house, Buffalo, N. Y.....	10- 6
10- 8	*Chimney, Washington, D. C.....	9-29
10- 8	Hospital Bldgs, Morris Plains, N. J.	10- 6
10-10	***Post-office, Macon, Mo.........**	**9-15**
10-10	School, New York, N. Y.........	9-22
10-10	Engine-house repairs, New York.	9-29
10-10	School, Spokane, Wash........	10- 6
10-10	Court-house, Port Lavaca, Tex..	10- 6
10-11	*Repairs to quarters, Ft. Monroe, Va.	9-22
10-11	Stables, etc., Mt. Vernon, Ohio..	9-29
10-12	Storehouse, Ft. Stevens, Ore.....	9-29
10-13	*High school, East Orange, N. J.	9-29
10-13	School, Jersey City, N. J........	9-29
10-13	Greenhouses, New York, N. Y....	10- 6
10-13	Alms-house, Retreat, Pa.........	10- 6
10-14	**Hospital bldgs., New York.......**	**9-15**
10-15	**Quarters, Puget Sound, Wash....**	**9-15**
10-15	Post-office, Fairbury, Neb.......	9-22
10-15	Fraternity hall, Mt. Carmel, Ill..	10- 6
11-16	*Post-office, Chambersburg, Pa..	10- 6
10-17	Police station, Memphis, Tenn....	9-22
10-17	*Post-office, Canandaigua, N. Y..	9-15
10-17	*Storehouse, Rock Island, Ill.....	9-22
10-17	Hospital, Rochester, Minn.......	10- 6
10-17	*School, Chisholm, Minn........	10- 6
10-20	Factory, Newmarket, Ont (Mfg. Pl.)	10- 6
10-24	*Post-office, Willmar, Minn......	9-22
10-24	Post-office, Troy, Ala..........	9-22
10-24	Public bldg., Strathcona, Alta..	10- 6
10-25	Building, etc., National Soldiers' Home, Va.	10- 6
10-26	*Quarters, Fort Hancock, N. J...	9-29
10-26	Warehouse, Vancouver, B. C.....	10- 6
10-27	Boilers, Lancaster, Ohio.........	10- 6

Bids close.		Noted in issue of
11- 1	Plans, Toronto, Ont.............	6- 9
11- 5	Remodeling gas house, Mare Island, Cal.	9-15
11- 7	Post-office, Demopolis, Ala......	10- 6
11-14	Post-office, Pontiac, Mich........	9-22
11-22	*Post-office, Lewiston, Idaho.....	10- 6
11-22	Post-office, Porto Rico.........	10- 6
11-30	Building, Phila., Pa...........	9-29

Water-Works.

10- 6	Specials, Grand Rapids, Mich..	10- 6
10- 6	Pump-house, etc., Milwaukee, Wis.	10- 6
10- 7	**Water main, Salt Lake City, Utah**	**9-22**
10- 7	Laying pipe, Boston, Mass.......	10- 6
10- 8	Water pipe, Forbes, N. Dak.....	10- 6
10-10	Flume, Bradley Beach, N. J.....	10- 6
10-10	Water-works, Mannsville, Okla..	10- 6
10-10	Water-works, Milford, Neb......	10- 6
10-10	Water-works, Decatur, Neb.....	10-10
10-10	Intake pier, Kansas City, Mo....	10- 6
10-11	**Laying pipe, Cleveland, Ohio....**	**9-22**
10-11	*Pump, etc., Louisville, Ky......	10- 6
10-11	Water pipe, etc., Reading, Ohio..	10- 6
10-11	C. I. pipe, Detroit, Mich........	10- 6
10-12	Pumps, Columbus, Ohio.........	9-29
10-12	Intake, Springfield, Ill.........	10- 6
10-15	Water-works, Blytheville, Ark..	10- 6
10-17	***Water-works, Oroville, Wash. ..**	**9-22**
10-18	I-beams, Belle Fourche, S. Dak.	9-29
10-19	*Water pipes, Chambersburg, Pa..	10- 6
10-20	Tank and trestle, etc., Fort Sam Houston, Tex.	10- 6
10-22	Standpipe, etc., Athens, Ohio....	10- 6
10-24	Water main, Euclid, Ohio.......	9-29
10-29	Sub laterals, No. Yakima, Wash.	9-29
10-31	Water system, Egypt, (Foreign)	10- 6
11- 1	***Reservoir, Bingham, N. Y. ......**	**9-22**
11- 1	*Canals, etc., North Yakima, Wash	9-29
11- 1	Water plant, Owensboro, Ky.....	10- 6
11-30	*Diversion channel, Portland, Ore.	9-29

Sewers.

10- 7	Sewers, Grass Valley, Cal.......	10- 6
10- 7	Sewers, Youngstown, Ohio.......	10- 6
10- 7	Sewers, Troy, N. Y.............	10- 6
10- 8	Sewers, Rockford, Ill...........	10- 6
10- 8	Sewers, Evansville, Ind.........	10- 6
10-10	*Sewers, Asbury Park, N. J......	10- 6
10-11	*Sewers, Sonyea, N. Y..........	9-29
10-11	Sewers, Boston, Mass...........	10- 6
10-12	Sewers, Norristown, Pa.........	9-29
10-14	Sewers, Columbus, Ohio.........	10- 6
10-14	Sewers, Paxton, Ill............	10- 6
10-15	Sewers, Cleveland, Ohio.........	10- 6
10-17	*Storm sewer, Muskogee, Okla...	9-22
10-17	Sewers, Toledo, Ohio...........	10- 6
10-17	*Sewers, Laurence, Kan.........	10- 6
10-19	Sewers, New York, N. Y.........	10- 6
10-20	*Sewers, Lewistown, Ill.........	9-29
10-21	*Sewers, Louisville, Ky.........	10- 6
10-25	Sewerage plans, Beaver Falls, Pa.	10- 6
10-28	*Sewers, Westfield, N. Y.......	10- 6
11- 1	Sewers, Shelbyville, Ind........	9-29
11- 1	*Sewers, Atlanta, Ga...........	10- 6

Streets and Roads.

10- 6	Grading, etc., Pomeroy, Ohio....	10- 6
10- 7	Street impvts, Seattle, Wash...	10- 6
10- 7	Cleaning and grubbing, Fort Winfield Scott, Col.	10- 6
10- 7	Highway impvt., Brazil, Ind....	10- 6
10- 7	Paving, Youngstown, Ohio.......	10- 6
10- 7	Grading, etc., McConnellsville, O.	10- 6
10- 7	Sidewalk, College Hill, Ohio....	10- 6
10- 7	Grading, etc., North Braddock, Pa	10- 6
10- 7	Macadam, Boston, Mass.........	10- 6
10- 7	Repaving, etc., New York.......	10- 6
10- 8	Macadamizing, Waterford, Conn	10- 6
10- 8	Road, Weston, Mass............	10- 6
10-10	Street impvts., Elberta, Ga......	9-29
10-10	Roads, Pittsburg, Pa...........	9-29
10-10	Street, Boston, Mass...........	10- 6
10-10	Road treatment, Toledo, Ohio....	10- 6
10-11	Paving, Crookston, Minn........	10- 6
10-11	Sidewalk, Lawton, Okla.........	10- 6
10-11	Driveway, etc., Buffalo, N. Y..	10- 6
10-12	*Gravel road, Freehold, N. J....	9-29
10-12	Curbing, etc., Olean, N. Y......	9-29
10-13	Roads, Vincennes, Ind.........	9-29
10-13	Roads, Hartford, Conn.........	10- 6
10-13	Surfacing, New York, N. Y.....	10- 6
10-14	Road bonds, Saratoga Sprgs., N. Y.	9-29
10-14	Road repair, Toledo, Ohio.......	10- 6
10-15	*Highways, No. Tarrytown, N. Y.	9-29
10-15	**Gravel road, Indiana.........**	**9-22**
10-15	***Roads, etc., Fort Sill, Okla....**	**9-22**
10-15	Road, Lafayette, Ind...........	10- 6
10-15	Paving, etc., New York, N. Y...	10- 6
10-15	Roads, Princeton, Ind..........	10- 6
10-18	Highway, Douglas, Ariz........	10- 6
10-19	Road impvt., Toledo, Ohio......	10- 6
10-19	Paving, New York, N. Y........	10- 6
10-21	Road repair, Cincinnati, Ohio..	10- 6
11- 1	*Roads, Jacksonville, Fla.......	10- 6
11-12	Road, Fort Wayne, Ind..........	10- 6

Miscellaneous.

10- 7	***Ditches, Greenwood, Miss........**	**9-22**
10- 7	***Barges, flat boats, St. Louis, Mo.**	**9-15**
10- 7	Track motor car, Winnipeg, Man.	9-29
10- 7	Crane and runway, St. Louis, Mo.	9-29
10- 7	Ditches, Greenwood, Miss........	9-29
10- 7	Dike, Dorranceton, Pa..........	9-29
10- 7	Retaining Wall, Red Lake Falls, Minn.	10- 6
10- 8	Ditch, Morrisonville, Ill........	9-29
10- 8	***Jetty, Galveston, Tex...........**	**9-15**
10- 8	**Storage tanks, Wash., D. C......**	**9-15**
10- 8	**Breakwater, Fairport, Ohio.......**	**9-22**
10- 8	**Sprinkler system, Boston, Mass...**	**9-22**
10- 8	Ditches, Red Lake Falls, Minn..	10- 6
10-10	**Breakwater, Paspebiac, Que.......**	**9-22**
10-10	***Dredging, Jacksonville, Fla.....**	**9-15**

Bids close.		Noted in issue of
10-10	***Dredging, Charleston, S. C.....**	**9-15**
10-10	***Dredging, Wilmington, N. C.....**	**9-15**
10-10	Chemical engine, Moose Jaw, Sask.	9-29
10-10	Retaining wall, Winnemucca, Neb.	9-29
10-10	*Coal crusher system, Washington, D. C.	10- 6
10-10	Watering troughs, Fort Robinson, Neb.	10- 6
10-10	Incinerator (Garbage), San Jose, Cal.	10- 6
10-11	Masonry, etc., Phila., Pa.......	9-29
10-12	Mooring equipment, Tompkinsville, N. Y.	9-29
10-12	**Levee, Kansas City, Kan........**	**9-29**
10-12	*Dredging, etc., Chicago, Ill.....	9-15
10-12	**Ice pier, L'Assomption, Que......**	**9-22**
10-12	**Wharf, Bic, Que................**	**9-22**
10-12	**Drainage canals, Cleveland, Miss.**	**9-22**
10-12	**Dam trestles, Wheeling, W. Va...**	**9-22**
10-12	Ditch, Redmond Falls, Minn.....	10- 6
10-12	Breakwater, New Edinburgh, N. S.	10- 6
10-13	Earthwork, New Orleans, La....	9-29
10-13	Paving blocks, New York.......	10- 6
10-13	Bear dens, New York..........	10- 6
10-13	Clay loam, New York..........	10- 6
10-13	Naval Architect, Portland, Ore.	10- 6
10-14	Wharf, Los Angeles, Cal.......	9-29
10-14	Dredging, Wilmington, N. C.....	9-22
10-14	*Dredging, Wilmington, N. C.....	9-15
10-14	Submarine cable, French Congo (Foreign)	10- 6
10-14	Breakwaters, Hawaii (U. S. Poss)	10- 6
10-14	Supplies, Panama (U. S. Poss)	10- 6
10-14	Dumping board (Garbage), New York	10- 6
10-15	***Subway plans, St. Joseph, Mo...**	**9-22**
10-15	**Breakwater, Cleveland, O........**	**9-22**
10-15	**Drainage ditch, levee, Pekin, Ill..**	**9- 8**
10-15	**Dredging, New York............**	**9-29**
10-15	**Dredging, Boston, Mass.........**	**9-29**
10-17	Pier, St. Joseph de Sorel, Que..	9-29
10-17	**Supplies, Panama (U. S. Poss.)...**	**9-22**
10-17	**Dredging, Boston, Mass.........**	**9-22**
10-17	Passageway, New York.........	10- 6
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10-19	***Dredging, Boston, Mass.........**	**9-22**
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11- 1	Jetty extension, Cleveland, O...	10- 6
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CONCRETE FORMS.—Blaw Co... ...sible Steel Centering Co., Pittsburg, P... Paper; 6 x 9 ins.; pp. 11; illustrated.

This late bulletin of the B... Co. contains a number of special ce... ...gs built by the company, specially ada... to the construction of culverts. The ...parative costs and sizes are given and ...otographs of the forms in actual work.

CONVEYING MACHINERY.—C... W. Hunt Co., West New Brighton, N. ... Catalog 102. Paper; 4 x 6½ ins.; ... 112; illustrated.

This small catalog seems to ... intended to only briefly mention the vari... types of machinery built by this company. This line comprises coal-handling and hoi... machinery, conveyors, industrial railw... electric locomotives, etc.

ELECTRIC STOVES.—General E... ...ric Co., Schenectady. Bulletin 3968. ... 10½ ins.; pp. 20; illustrated.

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For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 168.

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